

LDCE

NEWS LETTER

Quarterly Magazine

October - December 2019



L. D. COLLEGE OF ENGINEERING AHMEDABAD-15

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L. D. College of Engineering, Ahmedabad-15.

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Prof. K. B. Bhoyaniya

1.FROM THE DESK OF THE PRINCIPAL

Principal, Dr. R.K.Gajjar



Dear students and faculty members,

With the successful completion of first semester for the new students, we are now going to start with the new semester, with new subjects and goals.

Achievement of NBA accreditation of BE in Civil, Electrical and Mechanical Engineering has inspired us to go ahead and we need to put more efforts for best results with outcome based teaching-learning.

Research and innovation being our primary focus, our Heads and all the faculty members have initiated an action plan to achieve the targets of excellence in research and innovation through patents and publication of the best projects, research and consultancy. In order to stay in touch with cutting edge technology we are encouraging more trainings, workshops and NPTEL MOOCs besides focused training on CO-PO attainment and excellence in academics.

I am glad to see all the faculty members and students absorbed, involved and engaged in myriads of activities, including social and cultural, on our campus and wish that we keep the great work going.

I would like to end by adding that we should be focused and determined to achieve the goals we have set so that we can fix an even higher benchmark for us and the New Year would bring a new dawn of glory to our institute.

Dr. R.K.Gajjar

31st December 2019



2. PAPERS PRESENTED/PUBLISHED

Applied Mechanics Department

- Dr. M.V. Shah and Prof. U.K. Patel published a paper entitled "Effect of Elastic Non-Linearity of Soil and Pile on Uplift Capacity of Transmission Tower" in Deep Foundation Institute, November-2019; Page no.38 - 45

Civil Engineering Department

- Dr. P.J. Gundaliya published paper on "Development of Destination Choice Model for Leisure Trip-Ahmedabad city" in Journal of Emerging Technologies and Innovative Research, UGC Approved & Impact Factor 5.87, ISSN : 2349-5162-JETIR in September 2017, Volume 4, Issue 6, p25-32
- Prof R N Shukla published a paper on 1. 'Public Transport Accessibility Index for Bus System in West Zone of Ahmedabad City' in Pg:102-112, 2. 'Analysis of Mode Choice Behaviour of School Going Children in Ahmedabad' Pg:445-458 in Compliance Engineering Journal, UGC (UGC CARE), APPROVED Group 'A' journal; ISSN NO: 0898-3577 Scientific Journal Impact Factor - 6.1 in Volume 10, Issue 11, November-2019
- Prof R N Shukla presented a paper on "Bridging the gender gap in technical education by means of gender equity" at TEQIP-III Sponsored International Conference On "Gender Equity: Challenges and Opportunities", at Sardar Vallabhbhai National Institute of Technology, Surat on 19th December 2019.

Electrical Engineering Department

- Dr. C. D. Upadhyay has published a research paper in IJRAR with UG student Hir Gandhi on "Nodal Idea of Vehicle tracking and security using RFID" in Dec., 2019
- Dr. C. D. Upadhyay has presented a research paper "An Energy storage planning and analysis of microgrid: A college campus case study" with UG students Jeet Dhoriyani & Renison Macwan in IEEE International Conference, BITS, Ranchi on 5th December, 2019

Electronics and Communication Department

- Dr. (Prof.) B.S. Sedani presented paper titled "Comparative Analysis of Relay Selection Technique in Free Space Optics" in ISMAC-2019 held at SCAD Institute of Technology Palladam during 12-14 December 2019.
- Dr. (Prof.) B.S. Sedani have co-authored the paper titled "Simulation and Performance Enhancement of High Efficiency Video Coding Standard for Video Compression" in SCOPUS Indexed journal-International Journal of Innovative Technology and Exploring Engineering vol. 8, Issue 11, October 2019.
- Dr. (Prof.) B.S. Sedani have co-authored the paper titled "Deep Q Learning in Stabilization of Inverted

Pendulum" in SCOPUS Indexed journal- International Journal of Innovative Technology and Exploring Engineering vol. 9, Issue 2, November 2019.

Science and Humanities

- Jignesh G. Hirpara (Physics) presented a paper at NACE EAPA Conference 2019, Yokohama, Japan on "Self-Healing Smart Vanadium Oxynitride Coating of Aluminium Alloy for Anti-corrosive Applications" during November 11-14, 2019.
- Vaishali Adhwaryu (Physics) presented a paper at National Conference on Solid State Ionics-13, IIT-Roorkee on "Study on LiI concentration on dielectric and conductivity in Lithium Borophosphate glassy electrolyte system" 16-18 December 2019.
- Jignesh G. Hirpara (physics) published a paper on "Tantalum Oxide Thin Film on a Pt-Decorated Glass Substrate for pH-Sensing Application of Drinking Water" in Integrated Ferroelectrics Journal (Taylor & Francis).
- Dr D B Shah presented a research paper on "Optimal Production-Inventory Policies for Processed Fruit Juices Manufacturer and with Trended Demand and Quality Degradation" at 52nd Annual Convention of Operational Research Society of India and International Conference, 2019 at IIM, Ahmedabad during 15-18 Dec., 2019.

Instrumentation & Control Engineering

- Dr. M. T. Thakkar has co-authored a chapter on "Climate Control of Greenhouse System Using Neural Predictive Controller" published in Springer Nature Singapore Pte Ltd. 2019

Rubber Technology

- Prof. Rupande Desai, Prof. S.J. Padhiyar, & Mr. Akash Limbani filed patent titled "Ionic Liquid application as curative for Unsaturated rubber" on 20th Dec. 2019.

3. DEPARTMENTAL ACTIVITIES

Applied Mechanics Department

- The Civil Engineering Program of L. D. College of Engineering has been granted Accreditation by National Board of Accreditation (NBA) for period of 3 years valid from 2019-2020 to 2021-2022 i.e. upto 30.06.2022. The final score attained by the Civil Engineering department is 717 out of 1000.

Automobile Engineering Department

- 30 students and faculties of Automobile department have visited Automotive Research Association Institute, Pune on 12th October 2019.



Civil Engineering Department

- A visit for demonstration of Non-Destructive tests done was conducted at ISRO Housing Colony, Vastrapur on 5/12/19 for 15 Final year students by Prof. M. M. Shaikh and Prof. J. S. Kamble.



- LDCE Alumni Meet-1979 was organised on 10th October 2019, Sunday. Dr. R.B.Khasiya and Prof. U.P. Nigam had looked after and coordinated the Civil Engineering Department visits by the LDCE Alumni members.



Chemical Engineering Department

- Dr. Ramesh Subramanian delivered an expert lecture on “Polyacrylamide based cationic graft copolymer flocculants” on 24/12/2019 for the 6th Semester students.



- An alumni meet of last two year batches was arranged by the department on 23rd Oct, 2019. Prof. S. P. Parikh and Prof. S. R. Shah chaired the session. About 15 alumni members attended the meet. All the alumni shared their experience of the college and also shared their professional experience.
- The 1984 batch alumni of Chemical engineering department visited our department and had a pedagogy meeting with the faculty members.
- The chemical engineering department organized a one week STTP on “Modern trends in characterization techniques with hands on experience” from 4-8th Nov, 2019. 40 participants from all over Gujarat attended the STTP. The STTP was sponsored by GUJCOST.



- Chemical engineering department along with Environmental Engineering department and Gujarat Pollution Control Board organized an one week STTP on “Environmental auditing made easy: basics and analytical test procedures” from 25-29th Nov, 2019. 45 participants from all over Gujarat attended the STTP. The training program was inaugurated by Shri Kartikey Sarbhai, Director, Center of Environment Education as Chief Guest. Shri Jaimin Vasa, President, Gujarat Chemical Association, Ex- President Gujarat Chamber of Commerce and Industry along with Shri B. R. Naidu, Director (Retired) CPCB were present as Guest of Honor. The inaugural address was delivered by Dr. R. K. Gajjar, Principal, LD College of Engg and welcome address by Dr. Sachin Parikh, Head of Chemical Engg. Department of LDCE.



- An awareness session on “Poultry slaughter waste management” was conducted by Ketan Panchal of Center for Environment Education (CEE), Ahmedabad on 23rd October, 2019

Electronics and Communication Department

- Department has taken the initiative to conduct the GATE classes for the interested students after the scheduled classes.
- The departmental faculties have attended the workshop on 3 D Printing at Siemens Center of Excellence held on 17th December 2019 at the mechanical workshop.

Electrical Engineering Department

- The department had organized expert lecture on “Present scenario of Electricity Market & Energy Trading” on 23rd December, 2019 by Mr. Dhruv Bhatt from ABB, Sweden. This was coordinated by Dr. C.D.Upadhyay.
- Team of Electrical students has published provisional patent on “Universal power circuit”.
- BE (Electrical) programme of the department is accredited by NBA for the period July 2019 to June 2022.

Environmental Engineering Department

- Environmental Engineering department had organized Expert lecture on “House Plumbing”, for B.E. Vth Semester students on 20th October 2019 by Associate Prof. Dipsha Shah from CEPT University, Ahmedabad.

Mechanical Engineering Department

- Department had organized one week GIAN sponsored STTP on Advanced Welding Processes for Titanium & Aluminum alloys during 7th – 11th October 2019. Dr. N M Bhatt worked as convener and Dr. R G Kapadia had coordinated the program. Dr. Antonello Astarita from University of Naples, Federico II, Italy had delivered sessions on advanced welding processes for titanium and aluminium alloys from opportunities, challenges and potential perspective. Total 27 faculties, 20 students and 01 participant (48 Total) from research organization have taken benefit of the program.



- One more faculty development program, approved by ISTE and GTU, organized on Advances in Heating, Ventilation, Air-conditioning and Refrigeration (HVAC&R) during 14th – 19th October 2019. Dr. N M Bhatt and Dr. R G Kapadia had coordinated the program

while Prof. H A Shukla and Prof. G N Sutaria coordinated. Total 31 participants from various engineering institution across Gujarat have participated.



- A one day seminar was organized on the topic of “Fundamentals of Brazing” on 5th December, 2019 in association with Lucas Milhaupt and American Society of Metals International, North Gujarat Chapter at COE Welding. Total of 37 participants took advantage of the same including 17 faculties and 20 from industries.



- A one day seminar was organized on the topic of “Vacuum Furnace Technology” on 13th December, 2019 in association with HHV Limited and American Society of Metals International, North Gujarat Chapter at COE Welding. Total of 34 participants took advantage of the same including 7 faculties and 27 from industries.
- One week STTP on “Fundamentals of Welding Technology – I” was organized for 27 students including 16 from Government Engineering College, Gandhinagar and 11 from L. D. College of Engineering, Ahmedabad from 16th to 20th December, 2019. This included theory sessions as well as hands-on sessions on various techniques of welding and state of art welding simulator.
- Prof. Ramesh Agarwal was invited for an expert lecture on the topic of “Computational Fluid Dynamics” on 20th December, 2019 at COE Welding. Total of 38

participants took advantage of the same including 12 faculties and 26 students.

- ISHRAE Ahmedabad Chapter arranged an industrial visit for 7th semester students at Hitachi world, Thaltej on 18th October 2019. More than 55 students with Prof. S B Shah visited the industry to get practical experience of Water-cooled chillers, air-cooled chillers, various types of ducts, all types of ACs, split ACs and Central ACs. Miss Aditi Shah (Hitachi World) & Prof. Hardik Shukla assisted to organize and conduct the visit.



- ISHRAE Ahmedabad Chapter arranged an industrial visit to M/s. Synergy Agro Tech Pvt Ltd., at Sola Santej Road, Rakanpur, Kalol for students & faculties on 18th October 2019. Mr. Harshal Sarada & Mr. Ameet Kaila (M/s. Synergy Agro tech Pvt Ltd.) and Prof. Hardik Shukla assisted to organize & conduct the visit. More than 13 students with faculties have visited the industry.



Instrumentation & control Engineering

- Department has organized Inaugural function of ISA Chapter on 24th December 2019. Shri. Jagdish Shukla (Servilink Automation Baroda) Shri. Vipul Patel (ISA section Baroda), Shri. Madhukant Patel (Rev Automation, Gandhinagar), Dr. Suryakant Gupta (Scientists FCIPT, Gandhinagar), Dr. C.B. Bhatt Professor (IC, Principal MCA College) & Dr. R. K. Gajjar Principal (LDCE) were invited for this event.



- Program also includes expert talk as well as motivation session by experts.

Information Technology Department

- The department conducted Alumni meet on 16th November, 2019. Students agreed to help in areas such as preparing project proposal, SSIP idea to project design, technology support, training to students in the area of Android, node js, angular js.



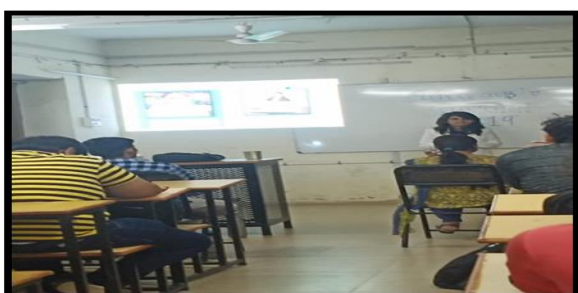
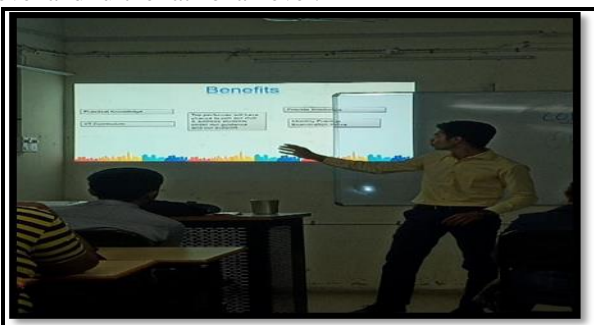
- A Ted Talk regarding Placement Preparation was taken by Jay M Agrawal, a final year student on 21st of December 2019, Saturday at 11.00 A.M. in the Department, room no 101. All the students of semester 4 and 6 were invited to attend the seminar. Nearly 50 students attended the seminar. The points covered in the Placement Talks were Placement process, Coding rounds, Interviews, placement preparation and a little glimpse of his experience. All the misconceptions and myths regarding the interviews and placement process were solved. Also, the entire seminar was done within 1 hour and the rest of the time was for Question and Answer session. All the major doubts of juniors were solved. The seminar was very joyous and fun, the feedback says that all the students enjoyed well.



- Gujarat Govt. initiated a Tablet Yojana scheme for 1st year students of all degree and diploma student since last year. This is year 10 students of IT department got tablet from Honorable Education minister of Gujarat on 22/11/2019 at GTU, Chandkheda.



- CODERS CLUB LDCE introduces creativity and practical approach towards real life problems. The motivation behind doing this is Integrity, Leading change, Excellence, Respect for Individual and fostering an environment of learning & sharing. Students will achieve their career objectives by providing the innovative and best practical approach of learning. Vision is to ensure students apply knowledge and skills by participating in Tech-fest and Hackathons at Institute level and further at zonal level.



- Miten Mehta, alumni student of L. D. College has founded a startup named by LifeON24. The product "Start Change" aims at helping people change their habits and achieve their goals, utilizing behavioral,

social and data sciences. The product will help to turn on the lives of people 24 by 7 and bring life, excitement and meaning to people's lives. The goal is to break that streak and help people to keep at it and succeed.

Plastic Technology

- Industrial Hackathon awareness program for the students was arranged in the department on the 15th of October 2019. Prof. Kintu P.Jain, Prof. Hetal C.Shah and Prof. Stuti R.Shah guided the students for the same.



- Two teams formed by the 6th semester students registered for Smart Gujarat for new India Hackathon under the title "Reducing the cooling time Cost Effectively for thick wall products to get optimum production" and "Reducing overall raw material cost by adding fillers without affecting the product mechanical strength", under the mentor ship of Prof. Bharati G.Basantani and Prof. Kintu P.Jain respectively.
- A pedagogy meeting was held with Prof. Mamta Saiyad on the 10th of December 2019 with the Head of the Dept and staff members. She shared her experience regarding her presentation of her research work on "Innovative Astronaut Suit" at NASA, U.S.A.

Rubber Technology

- An expert session was organized for B.E. Sem V, students on "Green Composites" delivered by Mr. Joel Lalucherian, Technical head, Ami Polymers on 11th October, 2019.
- An Interactive lecture was organized for B.E. Sem VII, students on "Innovations in EcoTech Rubber Recycling Techniques" delivered by Mr. Ronak Panchal, MD of Pravin Rubber & Engg. Works on 14th October, 2019.
- An Alumni Meet was organized at department level involving faculties along with UG and PG students of Rubber technology and they expressed their gratitude towards the department and interact with students for their futuristic development on 22nd October, 2019.
- An expert Lecture was organized for B.E. Sem IV, students on "Playing with Rubber compounding ingredients to achieve excellence in Rubber formulations" by Mr. Atul Shah, MD of Pioneer Rubber Industry, on 30th December, 2019.

- An expert Lecture organized for M.E. Sem I, students on “Dynamic simulation studies and experiments on rubber components” by Prof. N. M. Patel, on 30th November, 2019.
- An Industrial visit at Gujarat Fluorochemicals Limited (GFL), Dahej, Gujarat, was arranged for UG students of on 4th December, 2019.



- Prof. P. N. Chavda and students of the department, Ramandeep Bhalla (ME- IV), Harshil Mendapara (ME-IV), Punal Sorani (BE-VI) & Kelvin Gajera (BE-IV) attended “Vibrant startup & Technology Summit 2019” held at Science City during 12-14 Dec. 2019.
- The students and faculties visited “India Rubber Tyre Show” organized by Rubber Manufacturers’ Welfare Association (RMWA), held at GMDC ground, Ahmedabad during 20-22 Dec. 2019.



Science and Humanities

- An ISTE and AICTE approved two weeks training was organized by the department on “Industrial Mathematics and Scientific Computing” from 16th to 25th December 2019. More than 40 participants got trained in the same. The training was convened by Dr H C Patel and coordinated by Dr A B Patel and Dr P L Thakkar with an unconditional support of the whole department.

4. FACULTY ACTIVITIES

Applied Mechanics Department

- Site visit to ATIRA was arranged for M.E. Sem-I (Geotechnical Engg) students on 11/10/2019 with an aim to help them get conversant with various experiments related to Geosynthetics. Prof. Dr. M. V. Shah and Prof.

A. J. Shah from department had accompanied the students to the site.

- Site visit for ME Sem I students of Geo-tech and Structural engineering was arranged on 10/12/2019 where a Multilevel Parking cum Commercial complex is to be constructed on Sindhubhavan Road, Bodakdev for Ahmedabad Municipal Corporation by Shanti Construction (Gujarat) Pvt. Limited and monitored by HCP Design Planning & Management Pvt. Ltd. under the guidance of Prof. P G Patel, Associate Professor, Applied Mechanics Department.



The main objective of the site visit was to make the students aware of Diaphragm wall construction practices (Drilling, Reinforcement detailing and execution, usage of slurry, casting concrete in situ, construction joint etc.) and to show them the procedure of how Ready Mix Concrete is prepared and cast in the wall.

- Site visit for M.E. Sem I students of Geo-tech engg to KBM Laboratory was arranged on 19/12/2019. Dr. M. V. Shah and Prof. Shalini Singh had accompanied the students to the laboratory.



Students were highly benefitted as the Director of the KBM laboratory gave hands on demonstration of all the

crucial tests such as SPT, PLT, CBR, Field Vane shear etc. with a thorough explanation of each. Students were also apprised of the methods to interpret and prepare the Soil report.

Civil Engineering Department

- Prof. Dr. P. J. Gundaliya delivered an Expert Lecture on “Sustainable Development in Urban Transport” at Faculty of Technology & Engineering (CSPIT) Charotar University of Science and Technology Changa-388421, ANAND, Gujarat on 30/11/2019
- Prof. (Dr.) P. J. Gundaliya, delivered an expert lecture on “Public Transport: A way to Sustainable Urban Development” at “Transportation Engineering Practices” during Dec.02-06,2019 Venue: Darshan Institute of engineering & Technology, Rajkot, Gujarat
- Prof. (Dr.) P. J. Gundaliya, delivered an expert lecture on “Electrical Vehicle: A way to Sustainable Transportation” at Department of Electrical Engineering, Chhotubhai Gopalbhai Patel Institute of Technology, Uka Tarsadia University, Bardoli, GUJCOST Sponsored One Day Workshop On “Transforming India’s Mobility through Electric Vehicles” on 14/12/2019
- Prof (Dr) V M Patel conducted seminar on *AICTE: NORNS, STANDARDS & QUALITY INITIATIVES and Technical Teachers training Sensitization* on 21st November 2019 at LDCE Ahmedabad.
- Prof (Dr) V M Patel was invited as a judge for Paper presentation on “Current Research, Advancement and Prospect in Engineering” at ISTE Faculty Convection of Gujarat on 27 /12/2019
- Prof R N Shukla , delivered an expert lecture at a Short Term Training Programme on Urban Transportation Planning organized by M.S.Patel Department of Civil Engineering at Charotar University of Science and Technology, Changa on topic ‘Transportation Surveys for Urban Transportation System Planning’ on 29th November 2019
- Prof R N Shukla was invited as Session Chair for the Session theme: Law and Sociology in TEQIP III sponsored International Women Conference “Gender Equity: Challenges and Opportunities”, at Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat on 19th December 2019.

Chemical Engineering Department

- Prof. S. R. Shah was awarded PhD degree by the Gujarat Technological University, Ahmedabad on October, 2019.

- Prof. S. R. Shah successfully completed a 12 week NPTEL Online course on “Chemical Engineering Thermodynamics”.
- Prof. R. P. Bhatt and Prof. R. S. Ruperi attended a seminar on plastic waste for roads, building and construction on 13th Dec, 2019 arranged by Ahmedabad management Association.



- Dr. Sachin Parikh completed full marathon (42 Km) on 24th Nov, 19 in an event “Adani Ahmedabad Marathon 2019” organized by Adani Group at Ahmedabad.
- Dr. Sachin Parikh completed half marathon (21Km) on 15th Dec 2019 in an event “B Safal Marathon sixth edition” organized by B Safal Group at Ahmedabad.

Electrical Engineering Department

- Dr. M C Chudasama has delivered Expert talk on “MATLAB as a tool for engineering applications”, at GEC Bhuj during faculty STTP on 20th Nov, 2019.
- Dr. M.C. Chudasama has delivered Expert talk on “Applications of TCSC for power system operation and control”, at VGEC Chandkheda, during Faculty STTP, on 28th Nov,2019
- Prof. V.M. Dholakiya has delivered Session on "Basics of Starting up" at GEC Dahod.
- Prof. V.M. Dholakiya has attended Boot Camp at NSR CEL, IIM Bangalore under the Flagship Programme of SSIP Samajh.
- Prof. M R Vasavada, Prof. Lalji K Katariya , Prof. Mitul Patel , Prof. Tejas Patel, Prof. Gurang Buch and Prof. H N Raval have successfully completed MOOC certificate course conducted by NPTEL, IIT Madras on Electrical Machines and Gender Equality respectively.
- Prof. S. M. Patel has Completed NPTEL Course-MOOC Course on "Advance Linear Control Systems" IIT Kharagpur.

Environmental Engineering Department

- Prof. G.H.Ban has delivered a lecture on Air Pollution Control Equipments in STTP on “Environmental Auditing Made Easy: Basics & Analytical Test Procedure” on 25th to 29th November, 2019 at LDCE, Ahmedabad.

- Prof. M.J.Pandya has delivered a lecture on Toxicity test for Wastewater in STTP on “Environmental Auditing Made Easy: Basics & Analytical Test Procedure” on 25th to 29th November, 2019 at LDCE, Ahmedabad.

Mechanical Engineering Department

- Dr. N M Bhatt has delivered an expert talk on ‘Methods of Refrigeration’ during GTU-ISTE sponsored Faculty Development Program on Advances in Heating, Ventilation, Air conditioning and Refrigeration (HVAC&R) conducted by Mechanical Engineering Department of LDCE on 14th October 2019
- Dr. N M Bhatt has delivered an expert talk on ‘R1234yf as substitute to R134a in Domestic Refrigerator’ during GTU-ISTE sponsored FDP on Advances in Heating, Ventilation, Air conditioning and Refrigeration (HVAC&R) conducted by Mechanical Engineering Department of LDCE on 15th October 2019
- Dr. Komal G Dave and Dr. R G Kapadiya have actively participated as panelist at ISHRAE Ahmedabad Chapter, Woman in ISHRAE, program on panel discussion ‘women in technology –challenges and experiences’ sharing of views by men and women on date 12th December 2019 at Ahmedabad Management Association, Vastrapur, Ahmedabad. Panel Moderator Amisha Madam has consolidated the discussion with audience questions with panelist experience. Prof. M K Vyas, Prof. M D Patel and Prof. S J Patel have also participated in the event.



- Dr P R Rathod delivered an expert lecture on “Micro-machining” on 19th December, 2019 at Government Engineering College, Banswara, Rajasthan.
- Dr. M. D. Chaudhari delivered an expert talk on “Welding Metallurgy” at a STTP on “Fundamentals of Welding Technology – I” organized for students from Government Engineering College, Gandhinagar and L. D. College of Engineering, Ahmedabad at COE – Welding, LDCE on 18th December, 2019.
- Dr. M. D. Chaudhari was invited as a Jury Member on 29th December, 2019 for screening of Innovators and

Entrepreneurs for the “Idea Jiska Grant Uska” program for receiving the financial support to their proposals.

- Prof. Nilesh Pancholi has completed Doctor of Philosophy (Ph. D.) in Mechanical Engineering from Gujarat technological University.

Instrumentation & Control Engineering

- Provisional patent filed on Advanced Data Logger by Prof. M. T. Thakker, Prof. V. P. Patel and also BE 5th students Oza Vishesh and Parekh Zaran.

Plastic Technology

- Prof Hetal C. Shah and Prof Stuti R. Shah attended 2 days first level workshop on 3D printing technology at CoE Siemens, LDCE, on 09-12-19 & 16-12-19.
- Prof. Hetal C. Shah attended the “Vibrant Start up and Technology Summit” held at Science city Ahmedabad from 12th Dec to 14th Dec 2019.
- Prof Kintu P Jain attended the inauguration function of Plastivision 2020 held at Marriott Hotel Ahmedabad on 17th December 2019.

Rubber Technology

- Prof. R.N.Desai has arranged the pedagogy meetings with 1. Mr. Nikunj Thakkar, for “Influence of communication skill for global marketing strategies” on 17th October, 2019, 2. Mr.Mehul Bagadiya, Managing Director, on “Bio-degradable Polymer composites : Impacts on Environment” on 22nd October, 2019, 3. Mr. Prakash Patel, Managing Director, Agile Rubber Products, on “Upcoming trends & Dynamics of Global Thermoplastic Elastomer Market ” on 28th Nov, 2019, 4. Mr. Darshan Shah, M.D of Rubber Concept Industry on “Practice Resemblance between Polymer kinetics and Applied Science” on 4th December, 2019, 5. Ms. Heta Bhatt, Rubber Technologist, L.D. Alumni, on “ Natural latex : Tears of the Tree” on 19th December, 2019. Prof. A.D.Bhatt, Prof. B.D.Patel, Prof. S.J.Padhiyar, Prof. G.G.Bhatt, Prof. R.Y.Modan & Prof. P.N.Chavda attended the meetings.

Textile Technology Department

- Prof. P.R.Patel, Prof. D.V.Bihola, Prof. S.K.Parmar, Prof. K.J.Ponda successfully completed the MOOC training on “Science of Clothing Comfort” in the month of December, 2019.

5. STUDENTS’ ACTIVITIES

Applied Mechanics Department

- 3 teams each comprising of the students (from BE as well as ME) of Applied Mechanics has been qualified for the Finale Round of INSDAG competition (Innovative steel Structure design of storage go-down). 55 teams across India had participated in pre-final



rounds, out of which 16 teams were shortlisted for final round, amongst these 16 teams, 3 teams belong to this department. All the teams were mentored by Prof. C.D.Patel.

Automobile Engineering Department

- A world in motion training was held at college on 24th September 2019. AWIM joint convener Mr. Kartikeya Patel gave training to the volunteers. Twenty Five volunteers were present in training session.



- Kishan Gohel (Vice president-SAE Club) volunteered final event of AWIM at Swarnim Startup and Innovation University on 24th October 2019. The event was in association with SAE India Western Section.
- 9 students of the department successfully completed Internship at TATA Motors, Sanand plant.

Computer Engineering Department

- Roshan Rawal, Student of department and his Startup, Exposit had a very great interaction with Hon. Minister of Kaushal and Udhymikaran Ministry Central Government Shri Mahendra Nath Pandey at his office located at Delhi. He showed innovation and potential of the technology. He also talked about startup ecosystem for the growth of Gujarat State. Hon. Minister was very impressed with the innovation and startup culture of Gujarat state.



- Startup project of department's students Malav Shah, Shrey Savsani, Pratik Senjaliya, Hardik Shah and Malav D. Shah was covered in leading newspaper.



- SSIP project "Reolo" led by, III year student Malav Shah and his team Shrey Savsani, Pratik Senjaliya, Hardik Shah and Malav D. Shah got selected in Bootcamp at IIM-Banglore on 26th November 2019. They were among top 20 start ups from Gujarat State.
- SSIP project "Exposit" led by, student Roshan Rawal selected in Bootcamp at IIM-Banglore on 26th November 2019. They were among top 20 start ups from Gujarat State.
- SSIP project "Reolo" lead by, III year student Malav Shah and his team Shrey Savsani, Pratik Senjaliya, Hardik Shah and Malav D. Shah got selected to showcase at STEP 2020- Dubai on 6th December 2019
- SSIP project "Reolo" lead by, III year student Malav Shah and his team Shrey Savsani, Pratik Senjaliya, Hardik Shah and Malav D. Shah got selected to pitch-innopreneuers among top 200 start ups on 7th December 2019.

Electronics and Communication Department

- Ashvi Patel won the silver medal in Gujarat State Girl's Taekwondo Championship held at Ghasiram Chaudhary Bhavan, Shahibaug on 24th November 2019.
- Ashvi Patel has successfully completed the KUKKIWON's 1st Dan Taekwondo Promotion test.

Information Technology Department

- Mansuri Mohammed Rushan, 8th SEMESTER student of the Department, has been pursuing Actuarial Science Course externally from 'Institute And Faculty of Actuaries (IFOA), UK'. He appeared for 'Actuarial Statistics - CS1' examination which contains 'Practical application of statistics in Actuaries' along with 'R programming for Data Analysis'. Only 3 candidates from Gujarat could clear this examination conducted by 'Institute And Faculty of Actuaries(IFOA), UK' and he is one of them.
- Mansuri Mohammed Rushan has achieved NCC certificate by appearing in examination held at ahmedabad group head quarter Law garden conducted

by DG NCC RK Singh. Training camp was conducted by 8th Maratha LI Infantry Bn. Jamnagar.

- Dhruv Chavda, Krutik Chaudhari, Ronak Darji, Om Patel, Rutvik Shiyaniya, Shan Patel, Meet Thakkar all 4th semester students participated in the Cultural fest of IIT - Bombay also known as Mood Indigo, organized by IIT-B students during 26th to 29th December. It is Asia's biggest college cultural fest. Students from all over the country came to visit Mood Indigo. Footfall of the fest was approx. 1.5lakh over the time period of 4 days. The fest was a great experience for them, and they learned a lot of things throughout the fest. It was a great experience. Everybody enjoyed the cultural fest and highly appreciated the organizers.

Environmental Engineering Department

- Students of B.E.1st Year Environmental Engineering. Ishan Raval has got 1st position in mimicry in ELYSIAN 2.0 event organized by Nirma University, Ahmedabad on 13th to 14th November-2019

Instrumentation & Control Engineering

- Aninda Dey Sarkar and Ajay Vegad students of 5th semester won national robotics competition at IIT Delhi among 108 teams including IITs, NITs, etc. They represented as Team India in International robotics competition ABU Robocon at Mongolia.



- Parth Dave student of 3rd semester received best cadet of Gujarat directorate senior division Army.



- Varun Kapoor student of 1st semester stood 2nd in rifle shooting at Khanpur.



- Department's student Janvi Dubal (fine arts), Rutvij Thakar (theatre & music), Khyati Bhatt (theatre), Tej Patel (theatre), Himanshu Joshi (music), and Vipul Kamothi (folk dance) participated in XITIJ 2019 and became Zonal champions.



Mechanical Engineering Department

- Research Project of Mr. Mayur Merja (student of ME Mechanical (I.C. Engine & Automobile)), guided by Prof. S K Dabhi, is awarded by our Hon'ble Education Minister Mr. Bhupendrasinh Chudasama under Student Open Innovation Challenge on 15th November 2019.



Rubber Technology

- The students of the department, Sanjit Kumar (ME IV), Harshil Mendapara (ME IV) & Sahil Soliya (BE VI) achieved the 2nd runner up position and awarded with Silver Medal in Cricket Tournament (Ahmedabad zone), organized by GTU during 2nd-13th Dec, 2019.
- The student, Sanjitkumar (ME IV) participated in "Inter college Cricket tournament" organized by DAIICT held

at DAICT, Gandhinagar, Gujarat, during 7th-14th Nov, 2019.

- Saurav Pandey, a student of the department has contributed a Nobel Volunteering work of teaching computer course at NGO- "Desh Sheva Samiti" located at Goregoan, Mumbai during 6th – 21st Nov, 2019.
- Ankit Vandra (ME I), Akash Limbani, Harshil Mendapara, Raviraj Patel , Ramandeep Bhalla(ME III) students of the Department attended a Technical presentation on "Fluoroelastomers: Manufacturing & quality control" organized by AIRIA- All India Rubber Industries Association, Gujarat chapter, at Dahej, Gujarat on 4th Dec.2019.

Textile Technology

- Mr. Anupam Patel, Semester VII student, under the guidance of Prof. Ashwin Thakkar and Prof. S.K. Parmar, filed for a patent on "Nanofibres".

6. COLLEGE ACTIVITIES

- A seminar was conducted on **AICTE: NORMS, STANDARDS & QUALITY INITIATIVES** and Technical Teachers training Sensitization on 21st November 2019 by Civil Engineering Department, LDCE Ahmedabad.



Environmental Auditing Made Easy

- Chemical and Environmental Engineering Department has organized STTP on "Environmental Auditing Made Easy: Basics & Analytical Test Procedure" on 25th to 29th November, 2019.



NSS unit (LDCE) activities:

L. D. College of Engineering undertakes various activities towards the betterment of the society. The National Service

Scheme (NSS) unit of LDCE works in the field of social reforms. The activities carried out by the unit in the above mentioned three months are as follows:

Fit India cycling for plastic free society campaign (2nd October):

- On the occasion of Mahatma Gandhi Jayanti, to give a tribute to our beloved BAPU, volunteers of National Service Scheme of L.D. College of Engineering organized a cycle rally from LDCE campus to Sabarmati Ashram, had a word with the children who were preparing posters for a tribute to Mahatma Gandhi. Our volunteers also cleansed up the statue of Great Veer Narmad located outside the campus to make the surroundings looking good & plastic free.



National level workshop for "healthy ageing" for interstate branches by Indian Red Cross society (21st – 22nd November):

- On 21st – 22nd November, a national level workshop was conducted at RED CROSS BHAVAN on Healthy Ageing for interstate branches by Indian Red Cross Society. Our volunteers interacted with the professionals & learnt about many things & machines during the session. Volunteers were certified from IRCS.



A heritage walk (1st December):

- On the early morning of 1st December, NSS volunteers conducted a Heritage walk in Ahmedabad older city area. Main motto of this walk was to introduce the NSS unit with the new comer volunteers & to get the knowledge about heritage of the city. Volunteers have visited Sidi Saiyad Mosque, Mahakali Temple, Jami Masjid, Rani Hajira & Raja Hajira, & many other places.



An Informative session with VoSAP – Voice of Specially Abled People (3rd December):

- On 3rd December, LDCE has conducted an informative session in the campus with VoSAP organization. The president of VoSAP Mr. Pranav Desai had also made their presence as well. The VoSAP application, concepts & role of the organization was explained to the students as well as many of the faculties. The main motto of this session was to aware the younger generation about Specially Abled People & to provide them maximum accessibility.



A seminar on "Opportunities in Assistive Technology" (12th December):

- On 12th December, LDCE conducted a seminar on "Opportunities in Assistive Technology" under SSIP

with the help of VoSAP – Voice of Specially Abled People, Apang Manav Mandal & BPA – Blind People’s Association.

- President of VoSAP Mr. Pranav Desai, Mr. Alpesh Chauhan from Apang Manav Mandal & Mr. Ranchhodbhai Soni from BPA addressed faculty members & students of various departments of the college regarding challenges & opportunities in Assistive Technology. They shared innovative ideas about the solution of the problems occurring in the routine life of specially-abled people & encouraged the students. They also shared few project related ideas which can be registered under SSIP. Open Innovation Challenge was launched at the end of the seminar.



Joy of Giving session (25th December):

- On the occasion of Christmas, NSS volunteers have done a Joy of Giving session by distributing the blankets, winter clothes & other needy things to underprivileged people living out on the road sides & huts around the campus.
- Students have collected items like blanket, winter clothes from faculty members & students which are required by needy people in the winter. NSS volunteers have distributed these things among the needy children.



7. Consultancy / Testing work

- Electrical Department has received a consultancy project (worth Rs. 25000/-) of Electrical design validation for ONGC colony electrical distribution system.

8. WORKSHOPS/ SEMINARS/ STTP/ CONFERENCES ETC. PARTICIPATED BY FACULTIES

Sr. No.	Titles	Faculties	Department	Venue	Duration
01	Transport Data Analysis, Modelling & Simulation in the Era of Smart Mobility	Dr.P.J.Gundaliya	Civil Engineering Department	SVNIT, Surat	23rd -27th Dec 2019
02	FDP on IPR	R.N.Shukla		GTU, Chandkheda	21st – 23rd – Oct 2019
03	STTP on Urban Transportation Planning			Charotar University Changa	25th -30th Nov 2019
04	Participated in International Conference On “Gender Equity: Challenges and Opportunities			SVNIT, Surat	19 th Dec ,2019
05	Faculty Development Programme (FDP) on IPR	N.J.Dalal		GTU, Chandkheda	21 st -23 rd Oct 2019
06	NBA Accreditation	Prof. S. M. Dutta	Chemical Engineering Department	NITTTTR,Bhopal	14 th -18 th Oct 2019
07	Industrial Mathematics and Scientific Computing	Prof. R.Jaiswal	Computer Engineering Department	Mathematics (General)Department, LDCE	16 th - 25 th Dec 2019
08	NBA Accreditation	Prof.(Dr)S.M.Shah		IITRAM, Ahmedabad	14 th -18 th Oct 2019
09	MOOC on The Joy of Computing using Python	Prof. Tushar Champaneria		SWAYAM	October 2019
10	MOOC on Introduction to Internet of Things	Prof. Tushar Champaneria		SWAYAM	October 2019
11	NBA Accreditation	Prof. Ashwin Thakkar	Textile Technology	IITRAM, Ahmedabad	14 th -18 th Oct 2019
12	Entrepreneurship	Prof. H.J.Jaiswal		ICECD, Bopal, Ahmedabad	04th -16th Nov, 2019
13	NBA Accreditation	Prof. R. C. Patel	IC Engineering	IITRAM, Ahmedabad	14 th -18 th Oct 2019
14	Artificial intelligence	Prof. R. C. Patel		IIIT, Vadodara	02 nd -06 th – Dec 2019
15	Modern Trends in Characterization Techniques with Hands on Experience	Prof. A. K. Shah Prof. V. V. Patel		LDCE, Ahmedabad	04 th – 08 th Nov, 2019



16	Industrial Mathematics and scientific Computing	Dr. U L Makwana Dr. D D Trivedi Prof. H N Raval Prof. M R Vasavada Prof. V N Modi Prof. S N Shivani Prof. J B Modi Prof. V R Patel	Electrical Engineering	LDCE, Ahmedabad	15th -25th Dec, 2019
17	NBA – Accreditation	Prof. D.P.Shah	Environmental Engineering	IITRAM, Ahmedabad	14 th -18 th Oct, 2019
18	MOOC-Ecology and Environment	Prof. M.J.Pandya Prof. D.P.Shah Prof. V.H.Shukla	Environmental Engineering	NPTEL	August to October-2019
19	Modern Trends in Characterization Techniques With Hands on Experience	Prof. D.P.Shah		LDCE, Ahmedabad	4 th - 8 th November, 2019
20	MOOC-Introduction to Research	Prof. Y.M.Gajera		NPTEL	August to October-2019
21	Environmental Auditing Made Easy: Basics & Analytical Test Procedure	Prof. B.B.Patel		LDCE, Ahmedabad	25 th - 29 th November-2019
22	Modern Trends in Characterization Techniques with Hands On Experience	Dr. M.V.Shah	Applied Mechanics	Chemical Department, LDCE	4 th - 8 th November, 2019
23	Modern Trends in Characterization Techniques with Hands On Experience	Prof. P.I.Modi		Chemical Department, LDCE	4 th - 8 th November, 2019
24	Industrial Mathematics and Scientific Computing	Prof. P. J. Mehta		Mathematics (General)Department, LDCE	16 th - 25 th Dec 2019
25	Industrial Mathematics and Scientific computing	Prof. S.R Singh		Mathematics (General)Department, LDCE	16 th - 25 th Dec 2019
26	NITTTR Induction Programme-II	Dr.M.V.Shah		RCTI Extn Center, A'bad	30th Dec 2019 – 10 th Jan 2020
27	NBA - Accreditation	Prof. B. H. Parmar	Bio Medical Engineering	IITRAM, Ahmedabad	14 th -18 th Oct, 2019
28	Recent Trends in Medical Image Processing	Prof. B. H. Mehta		G. H. Patel College of Engineering & Technology,	18 th - 23 rd November, 2019



				VallabhVidhyanagar	
29	MOOC - Computer Vision	Prof. Y. M. Parikh		NPTEL	
30	Industrial Mathematics and Scientific Computing	Dr. Komal G Dave	Mechanical Engineering	Mathematics (General)Department, LDCE	16 th - 25 th Dec 2019
31	Industrial Mathematics and Scientific Computing	Dr. U A Patel		Mathematics (General)Department, LDCE	16 th - 25 th Dec 2019
32	Industrial Mathematics and Scientific Computing	Prof. J P Dataniya		Mathematics (General)Department, LDCE	16 th - 25 th Dec 2019
33	Recent Trends in Automotive Technology	Prof. A G Momin		NITTTR, Bhopal	26 th - 30 th August 2019
34	Processing and characterization of materials	Prof. M D Chaudhari		Mettalurgy Dept., GEC Gandhinagar	4 th - 8 th November, 2019
35	Processing and characterization of materials	Dr. U A Patel		Mettalurgy Dept., GEC Gandhinagar	4 th - 8 th November, 2019
36	Processing and characterization of materials	Prof. P C Sheth		Mettalurgy Dept., GEC Gandhinagar	4 th - 8 th November, 2019
37	Processing and characterization of materials	Dr. B K Patel		Mettalurgy Dept., GEC Gandhinagar	4 th - 8 th November, 2019
38	Processing and characterization of materials	Prof. D K Patel		Mettalurgy Dept., GEC Gandhinagar	4 th - 8 th November, 2019
39	Advanced welding processes for Titanium and Aluminum alloys	Dr. S S Pathan		COE Welding, LDCE	07 th - 11 th Oct, 2019
40	Advanced welding processes for Titanium and Aluminum alloys	Prof. D M Chandra		COE Welding, LDCE	07 th - 11 th Oct, 2019
41	Android Programming	Dr. Mehul C. Parikh			GEC, Gandhiangar, CE Dept



42	Industrial Mathematics And Scientific Computing	Dr. Mehul C. Parikh	Information Technology	LDCE, Ahmedabad	16/12/19 to 25/12/19
43	Android Programming	Prof Bakul B Panchal		GEC, Gandhiangar, CE Dept	14/10/19 to 18/10/19
44	Programming in C++	Prof Bakul B Panchal		NPTEL Online	29/07/19 to 21/09/19
45	Introduction to Machine Learning	Prof Jahnavi T Patel		NPTEL Online	29/07/19 to 18/10/19
46	Introduction to Machine Learning	Prof Swati J Patel		NPTEL Online	29/07/19 to 18/10/19
47	Cloud Computing	Prof Mital K PAnchal		NPTEL Online	26/08/19 to 18/10/19
48	Programming in C++	Prof Pradip R Patel		NPTEL Online	29/07/19 to 21/09/19
49	Programming in C++	Prof Manoj B Patel		NPTEL Online	29/07/19 to 21/09/19
50	Programming in C++	Prof Ankit C Patel		NPTEL Online	29/07/19 to 21/09/19
51	Economics for managers, Scientists and Non-Economists	Prof. Jaimin Kumar Chavda		IIT ROORKEE	09/11/2019 to 13/11/2019
52	“Industrial Mathematics and Scientific Computing”	Prof. H.B Tank		Electronics and Communication Department	L D College of Engineering
53	“Android Programming”	Prof.(Dr.) P.P. Prajapati	G.E.C. Gandhinagar,		14th - 18th October 2019.
54	“VLSI Design and Testing”	Prof.(Dr.) P.P. Prajapati	Institute of Technology NIRMA		4th - 8th November 2019
55	Industrial Mathematics & Scientific Computing	Prof. Stuti R.Shah	Plastic Technology	L.D.C.E. Ahmedabad	16-12-2019 to 25-12-2019



56	“NBA-Accreditation”	Prof. R.N.Desai	Rubber Technology	IIT, RAM	14th Oct to 18th Oct,2019
57	“3D Printing Technology”	Prof. A.D. Bhatt Prof.B.D.Patel Prof. S.J.Padhiyar Prof.G.G.Bhatt, Prof.R.Y.Modan Prof.P.N.Chavda		Center of Excellence, Siemens	09/12/2019 & 16/12/2019
58	“Asia Labex Expo”	Prof. R.N.Desai Prof. A.D. Bhatt Prof.B.D.Patel Prof. S.J.Padhiyar Prof.G.G.Bhatt, Prof.R.Y.Modan Prof.P.N.Chavda		Gujarat University, Convention & Exhibition Center, Ahmedabad	7th – 9th Nov,2019
59	“Modern Trends in Characterization Techniques with hands on experience”	Prof. A.D. Bhatt Prof. S.J.Padhiyar		Chemical Engineering Department, L.D.College of Engineering	4th-8th Nov ,2019
60	“Introduction to Environmental Engineering & Science - Fundamental & Sustainability Concept”	Prof. A.D. Bhatt		MOOC	12 weeks
61	“Advances in Material Characterization Techniques”	Jignesh G. Hirpara (Physics)		Science and Humanities Department	QIP Centre, IIT Roorkee
62	“Modern Trends in Characterization Techniques with hands-on Experience ”	Vaishali Adhwaryu (Physics)	Department of Chemical Engineering, L.D.College of Engineering.		November 04-08, 2019.
63	“Modern Trends in Characterization Techniques with hands-on Experience ”	Raval Hiral (Physics)	Department of Chemical Engineering, L.D.College of Engineering.		November 04-08, 2019.
64	“CIMPA School on Finsler Geometry and its Applications”	Dr. Brijesh Kumar A. Tripathi (Maths)	DST-CIMS, Institute of Science, BHU Varanasi,India		December 05-15,2019



9. M.E. Dissertation

Sr. No.	Title of thesis	Name of student	Guide
IC Department			
01	Development of data acquisition system to capture vibration signature for health monitoring of roating machines.	Kateja Kinnari	Prof. M. T.Thakker
02	Optimal design of digital modified smith predictor controller using evolutionary optimization techniques	Desai Gopal	Prof. V. P. Patel
03	Spatial Resolution enhancement techniques for digital image on embedded platform	Gajjar Binita	Prof. R. C. Patel
04	Design of hybrid digital Image filter for efficient spckle noise suppression	Dinal Joshi	Prof. M. C. Patel
EC Department			
05	Video Based Sign Language Recognition Using Cnn And Rnn	Aishwarya Jaydas	Dr. A.B. Nandurbarkar
06	Design And Implementation Of Mmic And Mic Based Small Signal Amplifiers For Microwave Remote Sensing Application.	Bhavsar Vishva	Dr Anil J. Kshyatriya
07	Mimo Antenna For 5g Application	Bhoi Nachiket kumar	Dr Nirali Kotak
08	Speech Emotion Recognition	Chandarana Jigna	Dr. A.B. Nandurbarkar
09	Asic Optimization Of Soc On 28nm Technology With Timing Closure.	Chaudhari Mahesh	Dr. Mihir Shah
10	Enhancement Of Dft- Atpg For Processor Ip In Soc	Chaudhary Priyaben	Dr.Sanjay Prajapati
11	A Study On Meta Materials/Dielectric Waveguide /Antenna	Kanjani Priyanka Mohanlal	Dr.Arun Nandurbarkar
12	Impact Of Floorplan On Qor In Physical Design	Karmur Sejalben	Dr.Sanjay Prajapati
13	Sizing Of Cmos Based Analog Circuit Using Teaching Learning Based Optimization (Tlbo) Algorithm	Maru Rahul Madhavjibhai	Dr. P.P. Prajapati
14	Design And Simulation Of High Temperature Blackbody Calibration Source	Neha Parmar	Dr Anil Kshyatriya
15	Characterization Of Gan On Sic Hemt Heterostructure	Nimavat Riddhi	Prof.P. J. Brahmbhatt
16	Development Of Ahb-Lite Uvm Vip With Systemverilog Assertion And Functional Coverage	Parikh Kavisha Devang	Prof.Kirit Patel



17	Facial Expression Detection	Patil Divya Deepakbhai	Prof.K.G. Vaghella
18	Design And Development Of Cmos Based Active Filter For Irnss Receiver	Prasad Poojakumari Jangbahadur	Dr. Mihir Shah
19	Optimization Of Pin Count And Test Time For Fault Isolation	Rathod Parita Bakulbhai	Dr. P.P. Prajapati
20	A Novel Concept Of Dual Band Dual Pole Conjugate Matched Feed	Sagar Dixit	Dr B.S. Sedani
21	Investigation On Dr Based Wideband Antenna For Sub 6ghz 5g Application	Tailor Krunal	Prof. K.R. Sheth
22	Design And Simulation Of Current Strap Antenna In Mega Hertz Range	Pirzada Sana Parvin Zaynul Abedin	Prof. S.K. Rana

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