



# SHROFF S.R. ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY



# KATHAN

Online  
Education

*KATHAN*  
ज्ञानम् यजामहे ।

28

(October-2020)

## EDITORIAL BOARD MESSAGE

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It gives us immense joy to put the 28<sup>th</sup> issue of KATHAN in your hands. During this tough time of the global pandemic, people across the world are facing manifold difficulties and drastic changes for which none were prepared.

When something extraordinary takes place –like the on-going pandemic for instance–the old normality, the established ways of how we think and act have to change radically. The same overwhelming change has come across academics too. Teachers and students are getting themselves acquainted to the new norms and platforms of online teaching/learning. Instead of seeking togetherness with colleagues and classmates, we must seek physical isolation these days. We must unlearn the old, negate it, to take in the new.

Such negation of the established norm is necessary not just at times of crisis as that presented by the coronavirus, but at all times. Indeed the story of all progress –scientific, technological, social and political is based on a positive negation which has to be made before a new order can come into being.

This issue focuses on the theme of **online teaching/learning** efforts made by SRICT to make effective use of the available time while keeping ourselves and others at safe distance.

Stay healthy, stay safe & happy online reading!!





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# Principal's Message

Dear Readers,

Over the last nine years SRICT, through its painstaking attitude and unrelenting efforts, has come to the forefront of engineering academics of not only GTU but through its bright students and hardworking faculty members made a mark in industry and research field of Gujarat. Kathan has always been a mirror of SRICT's good work.



The current pandemic could not deter SRICT from its activities. All the activities are now taken online, may it be classroom teaching or parents-teacher meeting, or any extra-curricular activity. Kathan 28 will depict all such endeavours. Like any other feature of the institute, Kathan has now become a dimension of SRICT which extends to society inwardly and outwardly too.

I extend my warm feelings to the editorial team of this e-newsletter with a promise to readers of an enriched reading digest.

Dr. Shrikant J. Wagh  
**Principal-SRICT**

## Vice Principal's Message



“The mind is not a vessel to be filled, but a fire to be kindled.” said Plutarch. KATHAN, our college e-newsletter, kindles the imagination of our learners. Providing ample opportunities in engineering education is one of the most fundamental obligations we owe to our students because in SRICT we are driven by the belief that every student deserves a high quality education. Today we are living in a fast changing complex society, which presents before us challenges as well as opportunities. In this context it all depends on every individual how one responds to the situation with the right mind-set. At this junction I would like to speak aloud to all readers that SRICT have tried to continue the quality education and maintain ethics in this date with Covid-19.

KATHAN provides an intersection of great challenge and great opportunity for the students and faculties to review their efforts and to analyse their achievements. Technology is evolving at a dizzying rate and our classroom, exams, submissions etc. are also designed to keep pace with it. Although there may be a lot of options in the style of education involving physical presence of the student, but the pages of KATHAN tells the tale of all that have been a part of what is right about the education in this era of pandemic.

I congratulate the team of students and the faculty for their tireless efforts that have come to fruition in the form of this newsletter. The following lines of John L. Mason are worth pondering,

*“Do more than grow. Bloom.  
Do more than hear. Listen.  
Do more than talk. Communicate.  
Do more than think. Create.  
Do more than work. Excel.  
Do more than decide. Discern.  
Do more than read. Apply.  
Do more than dream.  
Do more than wish. Believe.  
Do more than change. Improve.  
Do more than exist. Live.”*

# **ARES Secretary on Online Education**



## **Online Education –in line with Personality Development**

We are passing through the most critical stage of our life and of 21<sup>st</sup> century, as COVID-19 has alarmed the people for its effect. The global situation has compelled us to change our routine life including education and learning from school to post-graduate level. We used to attend schools and universities for our desired courses, however the effect of this pandemic has altered our systems which were in force. The familiar word in present days is Social Distancing which has resulted in lockdown and discontinuation of schools and colleges. As this cannot be continued for a long time the education system has taken the turn and now, we have online learning. It is always a case that the new system has blessings in disguises. Let us see the effect of this online learning

The benefits of online learning cannot be beat when it comes to earning your college degree. If you are on the fence about online classes vs. traditional classes, then read on about the (lucky) 13 benefits of taking college course online! A large variety of courses to choose from - did you know you can earn college course credits for almost any course you can think of? Whether it is algebra, English composition or even biology lab work, there is a course you can take online. You can even study humanities, sociology and business administration.

Multiple ways to communicate with your professor - the great thing about online classes vs. traditional classes is the flexibility you must communicate with your professor. It's not always convenient to see your college course instructor face to face, so between email, live chat and telephone conversations, you should have more opportunities to get feedback or have a great Q&A session with your college professor.

It does not cost as much - you can save hundreds of dollars to get your degree when you are learning online. The traditional costs associated with using classroom space and equipment do not apply. If you have the right hardware and software to log on and complete course assignments, as well as study the material, there are big savings you realize right away.



You have better opportunities to concentrate - you can choose anyplace that helps you learn the material to gain a greater understanding of the overall body of knowledge you need to earn your degree.

You can customize your learning environment - Whether you are at home, on the road or at a friend's house, you can create your own perfect room to study class materials and do homework assignments. You do not have to put up with any more disruptive environments like crowded libraries. Online learning offers better opportunities to concentrate by not being around other people. You can dedicate one room for quiet study, or if you are shy, you do not have to worry about interacting with other students.

### **The Benefits of Online Classes vs. Traditional Classes**

Enjoy a flexible schedule - one of the great benefits of getting an online degree is you can still work full time and manage time to earn a degree in your off hours. If you work non-traditional hours, you do not have to lose sleep, arrange for childcare or waste time commuting to physical classrooms.

Boost your career advancement opportunities - if advancing your career is dictated by your higher education accomplishments, then you take only the courses you need to get a promotion by upgrading knowledge and skills. This means no more waiting years to complete a traditional degree to get an opportunity to earn a promotion or a raise. Instead, the time you invest could only be months.

It is Eco-friendly - in the debate of online classes vs. traditional courses, you do not have to commute to a college or university to take the courses you need to complete a degree. You will save money on gas and vehicle maintenance, but most importantly, earning an online degree saves you time that you can use to study and take exams in the comfort of your home.

Your online college credits can transfer - by carefully researching colleges and universities you are interested in earning a degree from, you can arrange credit transfer to get your degree. Contact the admissions office of the colleges you are interested in and get a list of the online courses they'll accept for credit transfer to get your degree faster.

Want to try an online class? Take two free lessons on us today! Even More Benefits of Online Learning

Boost your opportunities for classroom subject discussions - Online college courses give you the chance to talk about classroom assignments using chat forums or live online discussion sites. You can still exchange ideas and dialog with other students without having to travel to a common meeting place that might not be convenient for you.

Join virtual study groups - it is possible to form study groups online using free online software like Google Hangout or Join Me to study remotely with others. All you need is your computer, a

headset to listen and talk in, and the time to join others virtually to swap ideas about classroom assignments, get questions answered about things you are stuck on. You can share screens, present documents, use virtual whiteboards to brainstorm ideas and organize your study projects.

You can review course materials repeatedly - even if it is 3AM, you have access to online course materials such as videos, podcasts, written materials to reinforce course concepts and theory you might be stuck on. It is so much easier to flip through screens, use the "find" function to quickly zero in on relevant paragraphs quickly and take online notes to help you understand the class materials.

You can learn at your own pace - the pressure to keep up with other students in a face to face environment is removed. You might knock out some courses in record time because the concepts and material are easy for you to understand, or you may need extra time to make some of the more abstract concepts stick with you. The point is you are in control of your progress through any online college course you take.

### **Two Bonus Benefits of Learning Online**

Take online quizzes and exams and get your score immediately - let us face it, waiting to learn your test score can be nerve-racking. Online learning systems have immediate scoring systems to let you know how well you passed the test.

You will develop great self-discipline - without the commitment to attending physical classes at a brick and mortar location, you will be forced to learn self-discipline by managing your time and tasks. If you need to use time management tools like scheduling time and tasks in an online calendar, this is a life-long skill that will help you beyond getting your college degree.

While there are many more benefits of online learning, these are the top ones for figuring out if taking college courses online is right for you.

After going through the above points and considering no alternative in the present days you have to accept this new system.

Rtn. Angiras H Shukla,  
**Hon. Secretary, ARES**

## Message from an Industry Person



It gives me great pleasure to be reaching out to you all in these trying times. I am indeed honoured to be one amongst you today (albeit remotely). I can just feel the surge of positive energy you all are transmitting. It is not only palpable but infectious. It gives me great hope to visualize the shining faces and have no doubt about the immense potential that this esteemed institute has been churning out each year. I am sure SRICT will be a shining star in its own field.

Let's mull over this. True knowledge is about serving others. We must ask ourselves every day what did we do with the knowledge that we have learned? And SRICT being in the field of knowledge management, it is about spreading it.

I truly believe that if you learn these three virtues, of justice, knowledge and integrity, you could transform yourself from being ordinary human beings into extraordinary, phenomenal individuals. I absolutely believe that individuals can and do make a difference. One idea, one thought can change lives. Take your idea, take your imagination. Never kill your imagination, let it spark the direction that your lives take.

KATHAN – The house magazine, is an extremely good and an important platform that you all have developed and nurtured since past years. This is the platform that allows SRICT to move past the four walls of the institute. It allows you to spread the good work you all are collectively doing in various fields of life sciences. The day is not far that SRICT will be a name to reckon with.

You all are very lucky to be existing in the area that supports industries. Look around, there are different kinds of industries. And how are these run? They will need people to manage and run. Be the one. SRICT for you is your ALMA MATTER. It is backed up by a very strong, dedicated and professional organization. My dear friends, take it on from here. Reach where no one has, dream that sounds impossible today and work diligently make it possible, innovate continuously and collaborate across all boundaries. Build and expand your network. Share knowledge.

Remember, this bad time will soon be a history. Prepare yourself to have a head start when the world reopens. There is still a lot of good work to do. I end my monologue now. In the end I would thank the SRICT Management for giving me this opportunity to reach out to you. ALL THE BEST!!

Dr. Sadanand J. Joglekar  
**Senior Director-Global Quality audit,  
SANOFI**



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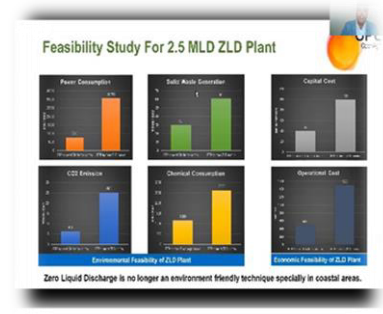
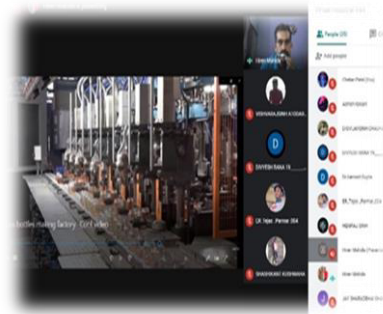
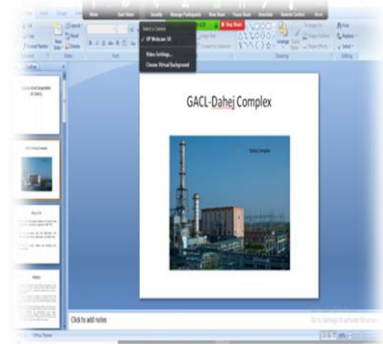
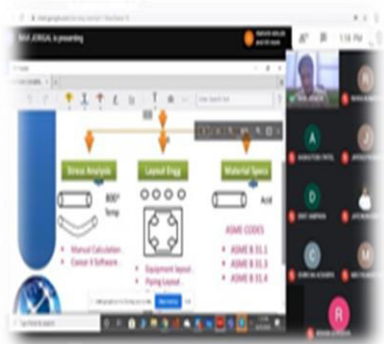
## ONLINE EDUCATION A BOON DURING THE PANDEMIC: SRICT A PERFECT EXAMPLE...!

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### On-going Academic, Curricular & Co-curricular Activities at SRICT

Name of Activity	Description
Online lectures for UG & PG Students	More than 1756 lecture were conducted with 83.77% attendance
Virtual Laboratories	42 virtual laboratories lectures were conducted.
Expert Lectures	Various expert lectures were conducted by National & International speakers from IIM , CSIR-NEERI , University College London & Many more Experts in particular field
Online Exam / Regular Assignments	Regular exam & were taken & Regular assignments were given to students to make them more familiar with the subject.
Virtual industrial Visit	More than 21 Virtual Industrial Visits were conducted for different streams to make students aware about the things on ground and to make their concepts more clear.
Peer Learning Sessions	72 PLI were conducted online by the senior students for their juniors.
Industrial Trainings / Webinars	2 Industrial Training & 17 Webinars were organized.
Parents Teacher's Meeting	20 Parents and Teacher's meetings were conducted with 100% participation.
1-2-1 Meetings	In order to motivate students towards their performance more than 850 1-21 meetings for the students were conducted where they interacted with Principal, Vice-Principal and HOD.

Reva fest 2020	First ever Online REVA FEST 2020 was organized in order to provide tribute to the corona warriors.
Felicitation Program 'ABHYUTTHAN'	More than 50 students of 2 <sup>nd</sup> and 4 <sup>th</sup> semester were awarded with Rs. 4.22 lacs and they were also given e-certificates.
Online lectures for UG & PG Students	More than 1756 lecture were conducted with 83.77% attendance
Virtual Laboratories	42 virtual laboratories lectures were conducted.
Expert Lectures	Various expert lectures were conducted by National & International speakers from IIM , CSIR-NEERI , University College London & Many more Experts in particular field



*Online Project Reviews, Classes, Industry visits, Webinars, etc.*

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## EFFORTS TAKEN BY SRICT TO ENHANCE ONLINE LEARNING AND ENGAGE STUDENTS IN FRUITFUL EXPERIENCES DURING COVID-19 LOCKDOWN

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SRICT has not compromised with the academic activities of imparting regular classroom teaching and learning in the pandemic period too. Though we changed the platforms to the online mode, more than 1756 regular online lectures were conducted as per time table for both under graduate & post graduate students. Practical sessions were conducted through the virtual laboratories under the guidance of faculty members and mentors. Various online lectures were also conducted by experts from specific fields and industries.

Some of them were National & International speakers from IIM Ahmedabad, CSIR-NEERI, University College London and many more. Regular exams were conducted as per specified time table and assignments were given to students to make them more familiar with the subjects. Industrial Visits which were part of our regular curriculum were conducted, but on a virtual mode as it was the lockdown period. Peer learning sessions were conducted by senior students to motivate and inspire their juniors. Industrial trainings and numerous webinars were organised on relevant topics. Parent teachers meetings were also conducted on online mode where parents earnestly participated with their wards and clarified several of their anxieties regarding the changing patterns of learning and evaluations. To boost the morale of our students, several online one-two-one meetings were conducted for the students with the Vice Chairman Panjwani Sir, Principal, Vice Principal and HoDs. Reva Fest, the annual cultural meet of SRICT was also conducted on a virtual platform this year. Students' participation was overwhelming and they really made it a celebration without compromising with the safety standards of the quarantine period. SRICT never leaves a stone unturned when it comes to inspiring our students and reinforcing their achievements with a gesture of appreciation. Four rounds of felicitation were organised to applaud the students' achievements in GTU results. Cash prizes worth Rs 4,22,000 and certificates were distributed to deserving students during this critical situation also.



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# SCHEMCON 2019

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**Conducted at SRICT in association with IChE Ankleshwar Regional Centre and GUJCOST on 17<sup>th</sup> and 18<sup>th</sup> October 2019.**

SCHEMCON, Students' Chemical Engineering Congress, is an annual event organized by the Students' Chapter of Indian Institute of Chemical Engineers (IChE) under one of its Regional Centres.

It provides a platform for the Chemical Engineering Students to interact, learn and gain exposure to the expanding arena of Chemical Engineering.

The theme of the SCHEMCON 2019 was Engineering Technologies for Green Environment. Being organized in the chemical zone which is surrounded by so many chemical process industries, SCHEMCON was an experience of a lifetime for budding engineers, considering the participation of stalwarts, leaders from industry and academia.

There were 165 students from within the Gujarat state Universities, private universities and other colleges of Gujarat. There were 438 students who attended the event from IITs, NITs, and other state universities and colleges. Total 215 papers were presented. There were 124 colleges all over India that participated with 534 students attending the event.

## Plenary Lectures

Padma Vibhushan Prof M. M. Sharma, the chief guest delivered the plenary session. Topic was Chemical Engineering for the Changing Scenario of Chemical Industry. The lecture was informative and emphasis was given on developing new material and catalysts for developing more sustainable processes.

Second day Padma Bhushan Prof J B Joshi delivered a plenary lecture. Title was Innovate to transform. The lecture presented was very realistic on GDP figures. It was discussed on the position and contribution of Chemical industries, agriculture and other sectors of India to the world production. The lecture highlights with low research funds can also generate innovations. There were many examples shown on the same.



*Dome at SRICT*



*Welcoming the Chief Guest*





*SCHEMCON 2019*



*Cultural program at SCHEMCOM*



*Visit to Statue of Unity by Participants*

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## CENTRE OF EXCELLENCE (COE)

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The Centre of Excellence (CoE) in industrial safety is established at SRICT-Ankleshwar, by the congruous collaboration of UPL Ltd. and GEXCON, Norway. The CoE is bracing up to accept challenges for making industrial work- field a safer place, protecting human lives, environment, and properties. Zero accident in industries is a reachable target when attitude of caring meets sharing of relevant knowledge.

### **TRAINING PROGRAM FOR MEMBERS OF CoE BY GEXCON-INDIA FLACS TRAINER**

The course covers the standard modules in FLACS, such as geometry import and generation, gas dispersion, explosion, and fire, as well as liquid pool spread. It also comprises presentations on validations, explosion mitigation, QA, and probabilistic risk analysis (Including a FLACS- Risk demonstration). This course combines theory, demonstrations, and practical exercises with FLACS software. Therefore, participants will be required to practice and apply their new knowledge through hands-on exercises. The training program envelops presentations and hands-on training for more than half the time.

*Course Objectives:* The attendees will gain an understanding on the following topics:

- Physical models, applications areas and functionality of FLACS
- FLACS workflow: Pre-processing, processing and postprocessing Guidelines for setting up FLACS simulations
- Quality assurance of FLACS scenarios and results
- Proficiency in using FLACS for standard applications in their projects

The CoE members from SRICT are Dr. Omprakash Mahadwad -Professor, SRICT (Coordinator) Dr. Alok Gautam – Professor, Dr. Shina Gautam – Asso. Professor, and Dr. Ravindra Kanawade – Asso. Professor, SRICT. Mr. Govind Keshavrao Patil – FLACS Trainer, Process Safety Engineer GEXCON India Mr. Amol Lakare – Process Safety Manager, UPL Ltd. and Dr. Kalpana Rewatkar Yeole – FLACS Trainer, Research Scientist, GEXCON India are other members of CoE.



*Members of CoE from SRICT & GEXCON*

# COE WAY FORWARD

## DEVELOPMENT OF FACULTIES IN PROCESS SAFETY.



### GEXCON CERTIFIED COURSES

- ✦ DUST EXPLOSION HAZARDS COURSE
- ✦ GAS EXPLOSION HAZARDS COURSE
- ✦ EXPLOSION SCIENCE COURSE
- ✦ PROCESS SAFETY MANAGEMENT COURSES
- ✦ ELECTROSTATIC HAZARDS COURSE
- ✦ HAZARDOUS AREA CLASSIFICATION COURSE
- ✦ MECHANICAL EQUIPMENT TO BE USED IN FLAMMABLE ATMOSPHERES

## DEVELOPMENT OF MASTER PROGRAM IN PROCESS SAFETY WITH UNIVERSITY OF BERGEN (NORWAY)



## DEVELOPMENT OF INDUSTRY SPONSORED RESEARCH PROJECTS IN PROCESS SAFETY

### MAINTAINING DATA BASE OF ACCIDENTS WITH ANALYSIS



## ASSISTING INDUSTRIES IN IMPLEMENTATION OF PROCESS SAFETY MANAGEMENT

### HIGH VALUE LEARNING AUDITS OF ACCIDENTS AND RECOMMENDATIONS



## DEVELOPMENT OF VIRTUAL REALITY (VR) TRAINING PROGRAMS

### DEVELOPMENT OF LABORATORY FOR EXPLOSIVITY TESTING



## PARTICIPATION IN SAFETY STANDARDS DEVELOPMENT PROCESS

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# INDEPENDENCE DAY CELEBRATIONS

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Department of Environmental Science and Technology of SRICT organized 73rd Independence Day Celebrations at SRICT Campus. Chief Guest of the event was Rtn. Bhupendra Shroff Sir. Celebration included Flag Hoisting followed by Parade, first time in SRICT history. Cultural Programmes included dances performed by students of DEST, music, singing and distribution of Nature Club Prizes. Programme ended successfully with high tea and refreshments.



Flag Hoisting



Parade



Dance



Parade

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## REPUBLIC DAY CELEBRATIONS

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*71<sup>st</sup> Republic Day Celebrations*

On the occasion of 71<sup>st</sup> Republic Day, Department of Environmental Science and Technology of Shroff S R Rotary Institute of Chemical Technology celebrated the grand event by having March past, soulful patriotic songs, fabulous group dance, great pyramid formation and recognition of students with various prizes. It was a memorable function with chief guest Rotarian Anita Kothariji, Vice Chairman of ARES Mr. Ashok Panjwani sir, Mrs. Meera Panjwani, Secretary of ARES Mr. Angiras Shukla, Principal Dr. Shrikant Wagh, Vice Principal Dr. Snehal Lokhandwala, Head of EST Ms. Pratibha Gautam and faculty members and entire SRICT fraternity and also Rotarians from Rotary club of Ankleshwar.

The function also involved installation of incinerator for sanitary napkins at UPL hostel which was donated by Rotary club of Ankleshwar.



*Pyramid Formation*

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## WINSTINCT-2019 – ANNUAL SPORTS DAY

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*Inauguration-Annual Sports Event - 'WINSTINCT'*

The inauguration of the annual sports day of SRICT was done by Honourable Mr. Ashok Panjwani along with Dr. Shrikant Wagh, Dr. Snehal Lokhandwala and all Heads of Departments at the cricket ground. Our respectable guests declared the annual sports open. The theme for WINSTINCT was **“Practice winning every day”** and the spirit and fervour of sportsmanship was reflected in each and every member of SRICT.

“WINSTINCT 2020” was organized in two slots, the first slot was completed between 7<sup>th</sup> & 8<sup>th</sup> February 2020 and the second slot was completed on 29<sup>th</sup> February 2020 and 1<sup>st</sup> March 2020. Under the coordinator ship of Dr. Ravindra Kanawade (Chemical Engineering), all the activities of WINSTINCT 2020 were completed with ecstasy.

This year 20 different sport events were floated for both students as well as faculty and staff which included Sprint, Relay, Shot Put Ball, Disc Throw, Long Jump, Cricket, Kabaddi, Seven Stones, Kho-Kho, Badminton, Volley Ball, Basket Ball, Box Cricket, Tug of War, Penalty shootout, Handball, Football, Carom, Chess and Table Tennis.

The participation of students was encouraging, (1185 boys), 302 (girls) and 45 (Faculty) participated in WINSTINCT 2020.

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## NATIONAL LEVEL TECHNICAL SYMPOSIUM “TECHNOVATION 2019”

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Shroff S R Rotary Institute of Chemical Technology, Vataria organized its 7<sup>th</sup> National level Technical Symposium “Technovation 2019” on 26<sup>th</sup> & 27<sup>th</sup> September 2019 on the theme “Green Technology”. Chief Guest of Inauguration was Mr. Arun Joshi, Chairman & Managing Director, Surya Life Science Ltd, Ankleshwar & Chief Guest of valedictory function Mr. Kamlesh Sukhwani, Plant Manager, Evonik Speciality Silica India Pvt. Ltd., Jhagadia. Total 14 Technical Events, 04 Nontechnical Events & 02 Workshops were conducted. 1703 students participated in this Symposium from Gujarat and outside Gujarat. During Valedictory function winners of the events were awarded cash prizes worth Rs. 43,259/- and certificates.

This National Level Technical Event was coordinated by the Department of Electrical Engineering with the full support of ARES Management. Overall it proved to be a good platform for students to interact, share and exchange innovative and technical ideas.



*Inauguration-TECHNOVATION 19*



*Welcoming the Guest*



*Technical and Non-Technical Events*

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## REFRESHER COURSE ON “ENERGY EFFICIENCY IN HVAC SYSTEMS”

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Department of Mechanical Engineering & ISHRAE Surat Chapter Organized Refresher Course on “Energy Efficiency in HVAC Systems” on 7<sup>th</sup> February 2020. Dr. Jignesh R Mehta, PhD (IIT Bombay) Department of Mechanical Engineering Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Mr. Anish S Travadi, Head Engineer, Amafhh Air Conditioning Engineering and Mr. Dharmesh Vyas, Owner of Advait Engineers, Vadodara were the key speakers of the event. 43 participants from the various industries and students of ISHRAE chapter participated in the refresher course.



*Refresher Course on “Energy Efficiency in HVAC Systems”*



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## FIRST EVER ONLINE REVAFEST-THE 8<sup>TH</sup> ANNUAL CULTURAL EVENT

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At a time of global pandemic, when unrest prevails all over the world, our institute had risen to the occasion and decided to continue the (online) REVA FEST dedicating it entirely to CORONA WARRIORS across the world. Our students took up a challenge and tried their best to put up a small program with limited available resources. We took the digital route to telecast our annual cultural event (REVA FEST) through local channels and other social media handles. The program was broadcasted

on 02<sup>nd</sup> May 2020 on YouTube live, Facebook live and four local TV channels. The soft copy of the performances was invited from students which were shortlisted for the compilation and broadcasting. The online program included vocal-singing, solo dances, instrumental, taekwondo,



various arts, addresses from delegates, best student awards etc. The program was anchored by our students; Aditya Chaumal, Harsh Shah, Mahima Maheshwari, Punit Patel, Ishwar Jadhav, Prasad Kale, Saumya panpalia and Ashutosh Upadhyay. The staff members involved in the organizing the program included Mr.Krunal Suthar ,Ms. Mital Patel, Dr. Deepika Shah, Ms. Monika Patel, Dr. Divyang Patel, Mr. Sudeep Wadia, Mr. Jignesh Joshi, Mr. Mayur Kolhe and Mr. Mohit Wable. The best student award was coordinated by the department of

Environmental Science and Technology. Aditya Chaumal from Chemical Technology was declared as best student 2020. The program included the speeches of our management members who motivated and encouraged all the students making all of us believe that nothing is impossible with firm determination. The program was well appreciated and viewed by a large audience. The program was viewed by over 10,000 people. The program is still available on the following link and being watched; <https://youtu.be/Z3qIX9qu8N8>

The program ended on a positive note with a video message prepared by our students that “Together, we can fight this virus and we will”.



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## PRATIYOGITA 2019

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MSH Department, SRICT organized a state level technical event PRATIYOGITA 2019 for Secondary and Higher Secondary School Students on 18th December 2019. This was the third sequential state level event organized at SRICT since 2017. More than 1260 students from 40 schools of Gujarat participated in various Science and Technical events. Students enjoyed a lot and learnt many new ideas and thoughts by participating in numerous competitions and interacting with each other. Rotarian Pradeep Gohil, PDG, and Trustee ARES Dr. P N Parmeshwaran graced the inaugural session.



*Rtn. Pradeep Gohil & Dr.P.N. Parameswaran Lighting the lamp*



*Welcoming ARES Secretary, Advocate Angiras Shukla*

Mr. K Srivatsan, Director Subhasri Pigment and Mr. Angiras Shukla, Secretary ARES awarded the winners with cash prizes worth Rs. 45,000, certificates and trophies during the valedictory function. The event was successfully coordinated by Dr. Deepika Shah under the guidance of Head MSH Department Dr. Purvi Naik and I/C Principal Dr. Snehal Lokhandwala. The event was a grand success with the collective efforts of all members of MSH department along with Rotaract members of SRICT.



*Activity by Students @ PRATIYOGITA*

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## ABHYUTTHAN - FELICITATION OF THE MERITORIOUS STUDENTS OF 1, 3, 5, 7 SEMESTERS

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SRICT has always believed in motivating the students to inspire them to scale greater heights in every field. For the same, Department of Mathematics, Science & Humanities of SRICT has organized felicitation program “**ABHYUTTHAN- 2020**” for **7<sup>th</sup> semester students on 13<sup>th</sup> February 2020** to showcase outstanding performance in academics in GTU result winter 2019. This auspicious occasion was graced by ARES members, Chairman Mrs. Sandra Shroff, Vice- Chairman Mr. Ashok Panjwani, Trustee & Treasurer Mr. Kishore Surti, Trustee Mr. B. D. Dalwadi, Secretary Mr. Angiras Shukla, Principal Dr. Shrikant Wagh, Vice – Principal Dr. Snehal Lokandwala to award the students with certificates of academic excellence. The event was co-ordinated by Ms. Pragna Lad.

The felicitation was divided into 5 groups carrying different semester performance Index (SPI). SPI category 8.5 to 8.99 had total of 37 students and was awarded with total price money of 1,65,000/-, 9 to 9.49 comprised of 28 students with price money of 2,56,000/-, 9.5 to 9.99 had 21 students and was awarded with price money of 4,00,000. In PG section 3 students were awarded with the academic excellence awards with total price money of 18,000/-. The shining star of SRICT with SPI 10 was named after Mahima Maheshwari of EST Department and was awarded with 20,000/- cash prize and gold medal. Total of Rupees 8,41,000/- was awarded among 90 students of SRICT.



*Toppers & their parents Felicitated at ABHYUTTHAN*

Another felicitation program “**ABHYUTTHAN’2020**” was organized by MSH Department on 13<sup>th</sup> March, 2020 at Entrance Plaza, SRICT to honour the shining stars of semester 5, who showcased outstanding performance in GTU Winter-2019 examination. Also students of CT Dept. Aditya Choumal (5<sup>th</sup>Sem) and Prathyusha G.Nair (sem-1, PG, CE) were awarded 20,000/- cash prize and a Gold medal sponsored by UPL for securing perfect SPI 10 at Gujarat

Technological University. A cash prize worth Rs.8,15,000/- was distributed among 84 students of Semester 5 & PG Sem-1 students. MSH Dept. Head, Dr.Purvi Naik proposed special gratitude to all the dignitaries, departmental HODs and always supporting, encouraging parents. Also she highly appreciated the efforts of program coordinator Ms.Pragna Lad & entire team of MSH Dept.

SRICT has always believed that '**with every new day comes new strength and new thoughts**' and so even during the pandemic lockdown period of COVID-19, SRICT came up with a new thought of Online Felicitation Program- 'ABHYUTTHAN' for our students of batch-2018 (semester 3rd). 31 students were felicitated during the program for their GTU winter 2019 examination results with cash prizes worth Rs. 2,21,000/-. With 127 participants we got new strength to applaud all our talents in the house. The online 'ABHYUTTHAN' was well received and appreciated by all the students, parents and stakeholders of SRICT. The programme was organised by MSH department under the guidance of HOD MSH Prof.Dr.Purvi J Naik.



*Online felicitation -ABHYUTTHAN Sem1*



*Chief Guest Mrs. Anshu Tewari during the online felicitation*

Another online Felicitation Program- 'ABHYUTTHAN' was organised for SRICT students of batch-2019 (semester 1) on 5<sup>th</sup> July 2020. 27 students were felicitated during the program for their GTU winter 2019 examination results with cash prizes worth Rs. 2,15,000/- and 27 students with a motivational certificate for scoring S.P.I between 8.0 to 8.49. With 150+ participants we got new strength to applaud all our talents in the house. This new idea was appreciated and motivated by honourable Chief Guest of the award ceremony, Mrs.Anshu Tewari (Principal-Shree Gattu Vidyalaya).The programme was co-ordinated by Ms.Pragna Lad & Ms.Aakancha Kumar.

# SHINING STARS OF SRICT

Since its inception, SRICT has been in the top 10 list of more than 100 colleges of GTU. The quality education held up by hard work of students, faculty members and the mentorship of ARES management keeps our rank high in the zone. ARES management motivates students through one –two- one meetings and felicitations. All these efforts resulted in the success of our students who came out with flying colours in the recently declared results. We are proud to present our meritorious students who scored exceptionally well in the university level and made SRICT proud.

UPL  
Experience

SRICT

Rotary  
Ankleshwar

*Shroff S.R. Rotary Institute of Chemical Technology*

**B.E. Semester- 2**  
**GTU Results Summer 2020**

**Shining Stars of SRICT**

 <p><b>Deep Shah</b> CPI 9.90 Chemical Engineering 1<sup>st</sup> in GTU (Branchwise)</p>	 <p><b>Kaushik Vaijapurkar</b> CPI 9.79 Chemical Engineering 4<sup>th</sup> in GTU (Branchwise)</p>	 <p><b>Krisil Hajariwala</b> CPI 9.79 Chemical Engineering 5<sup>th</sup> in GTU (Branchwise)</p>	 <p><b>Dinal Solanki</b> CPI 9.59 Electrical Engineering 6<sup>th</sup> in GTU (Branchwise)</p>
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www.srict.in

*B. E. Semester-2 GTU Result (Summer 2020)*

UPL  
Experience

SRICT

Rotary  
Ankleshwar

*Shroff S.R. Rotary Institute of Chemical Technology*

**B.E. Semester- 4**  
**GTU Results Summer 2020**

**Shining Stars of SRICT**

 <p><b>Yash Thaker</b> CPI 9.39 Chemical Engineering 6<sup>th</sup> in GTU (Branchwise)</p>	 <p><b>Sakshee Jain</b> CPI 9.36 Chemical Engineering 7<sup>th</sup> in GTU (Branchwise)</p>	 <p><b>Sneha Sajjan</b> CPI 9.35 Chemical Engineering 9<sup>th</sup> in GTU (Branchwise)</p>
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*B. E. Semester-4 GTU Result (Summer 2020)*



# Shroff S.R. Rotary Institute of Chemical Technology

## BE 6<sup>th</sup> Sem Result of GTU Summer 2020 Examination

### Shinning Stars

of SRICT in GTU



**Aditya Chaumal**  
SPI 10  
CGPA 10  
Chemical Technology  
5<sup>th</sup> in GTU (CGPAwise)



**Devarshi Vyas**  
SPI 10  
CGPA 10  
Chemical Technology  
7<sup>th</sup> in GTU (CGPAwise)



**Deepraj Patil**  
SPI 10  
CGPA 9.95  
Chemical Engineering  
9<sup>th</sup> in GTU (CGPAwise)



**Ashutosh Upadhyay**  
SPI 10  
CGPA 9.95  
Chemical Technology  
10<sup>th</sup> in GTU (CGPAwise)

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*B. E. Semester-6 GTU Result (Summer 2020)*



# Shroff S.R. Rotary Institute of Chemical Technology

## B.E. Semester- 6 GTU Results Summer 2020

### Shining Stars of SRICT



**Vidya Jadhav**  
CPI 9.61  
Chemical Engineering  
3<sup>rd</sup> in GTU (Branchwise)



**Krutika Bhavsar**  
CPI 9.60  
Chemical Engineering  
4<sup>th</sup> in GTU (Branchwise)



**Deepraj patil**  
CPI 9.57  
Chemical Engineering  
5<sup>th</sup> in GTU (Branchwise)



**Ananya Dave**  
CPI 9.49  
Chemical Engineering  
8<sup>th</sup> in GTU (Branchwise)



**Tarun Karnani**  
CPI 9.44  
Chemical Engineering  
10<sup>th</sup> in GTU (Branchwise)

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*B. E. Semester-6 GTU Result (Summer 2020)*



# Shroff S.R. Rotary Institute of Chemical Technology

## BE Sem 8 GTU Results Summer 2020

### Shining Stars



**Yuvraj Surma**  
CGPA 9.91  
CPI 9.73  
Chemical Technology  
1<sup>st</sup> Rank in GTU (CGPAwise)  
2<sup>nd</sup> Rank in GTU CPIwise



**Mahima Maheshwari**  
CGPA 9.83  
CPI 9.35  
Environmental Science  
& Technology  
5<sup>th</sup> Rank in GTU (CGPAwise)



**Maitri Patel**  
CGPA 9.67  
CPI 9.60  
Chemical Technology  
10<sup>th</sup> Rank in GTU (CPIwise)

*Congratulations!!*






*B. E. Semester-8 GTU Result (Summer 2020)*

UPL SRICT Rotary Amalshree

SHROFF S.R. ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY

**GTU Results Summer 2020**  
B.E. 2<sup>ND</sup> SEM

**10 POINTERS**

 <b>Deep Shah</b> SPI 10 CPI 9.90 Chemical Engineering	 <b>Kaushik Vajjapurkar</b> SPI 10 CPI 9.79 Chemical Engineering
 <b>Krisil Hajariwala</b> SPI 10 CPI 9.79 Chemical Engineering	 <b>Moimuddin Shaikh</b> SPI 10 CPI 9.79 Environmental Sci. & Tech.
 <b>Swati Gupta</b> SPI 10 CPI 9.36 Environmental Sci. & Tech.	 <b>Velin Shah</b> SPI 10 CPI 8.67 Environmental Sci. & Tech.

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10 Pointers-Sem 2-Summer 2020

UPL SRICT Rotary Amalshree

SHROFF S.R. ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY

**10 POINTERS** **GTU Results Summer 2020**  
B.E. 4<sup>TH</sup> SEM

 <b>Yash Thaker</b> SPI 10 CPI 9.39 Chemical Engineering	 <b>Sakshee Jain</b> SPI 10 CPI 9.36 Chemical Engineering
 <b>Prasad Kale</b> SPI 10 CPI 9.31 Environmental Sci. & Tech.	 <b>Shubham Gupta</b> SPI 10 CPI 9.27 Chemical Engineering
 <b>Nidhi Bhavsar</b> SPI 10 CPI 8.94 Environmental Sci. & Tech.	 <b>Jayrajsinh Kher</b> SPI 10 CPI 8.84 Chemical Engineering

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10 Pointers-Sem 4-Summer 2020





Shroff S.R. Rotary Institute of Chemical Technology

**ME Sem 4  
GTU Result Summer 2020**



**Bhavisha Gohil**  
SPI 10  
CPI 8.66  
CE



**Malay Borasiya**  
SPI 10  
CPI 8.43  
ME (Thermal)



**Harsh Patel**  
SPI 9.13  
CPI 9.12  
CE



**Sefali Patel**  
SPI 9.13  
CPI 8.91  
CE




**Viral Atodariya**  
SPI 9.13  
CPI 8.34  
ME (Thermal)

**Congratulations!!**

**SRICT Results : 87.05%**

10 Pointers-Sem 2(PG)-Summer 2020



Shroff S.R. Rotary Institute of Chemical Technology

**B.E. 8<sup>th</sup> Semester GTU Results Summer 2020**

*Congratulations...*

**1**  
SRICT Results 100%


**2**  
100% Students Secured Distinction

**3**  
94.37% Students Scored SPI>8.5


**Phase 1&2**

**05**  
2 students in University TOP 10 as per CPI (Phase 1 & 2)


**04**  
4 students in University TOP 10 as per CGPA (Phase 1 & 2)




**Yuvraj Surma**  
CGPA 9.91  
1<sup>st</sup> Rank in University  
CT



**Bansari Shah**  
CGPA 9.87  
3<sup>rd</sup> Rank in University  
EST



**Mahima Maheshwari**  
CGPA 9.83  
8<sup>th</sup> Rank in University  
EST



**Neel Patel**  
CGPA 9.82  
9<sup>th</sup> Rank in University  
CE

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10 Pointers-Sem 8-Summer 2020





## SHROFF S.R. ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY

B.E. 8<sup>th</sup> Semester GTU Results SUMMER 2020

10 Pointers @ Chemical Technolgy

Phase 1  
Results

Congratulations



**Yuvraj Surma**  
SPI 10 CPI 9.73



**Maitri Patel**  
SPI 10 CPI 9.60



**Pooja Patel**  
SPI 10 CPI 9.59



**Krupesh Patel**  
SPI 10 CPI 9.41



**Chirag Patel**  
SPI 10 CPI 9.15



**Mihir Patel**  
SPI 10 CPI 9.07



**Vivek Bakori**  
SPI 10 CPI 9.01



**Surajbhan Pathak**  
SPI 10 CPI 8.86



**Jeet Vataliya**  
SPI 10 CPI 7.93



**Jay Ghadiya**  
SPI 10 CPI 7.68

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10 Pointers-Sem 8-Summer 2020

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## 10TH FOUNDATION DAY CELEBRATION

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Shroff S.R. Rotary Institute of Chemical Technology (SRICT), established in 2011 celebrated its 10<sup>th</sup> foundation year. On this occasion the institute celebrated the glorious journey of a decade. More than 1843 viewers joined to celebrate unforgettable moments with a special online program broadcasted on Facebook live & YouTube live on Thursday, 16<sup>th</sup> July 2020.



*Glimpses of online broadcasting*

The program elucidated the eventful journey of SRICT since its beginning till date. It was a saga of inextricable efforts of so many visionaries who cherished at the dream to establish an institute that would be serving the society and the nation in the sphere of education and research. The program was further glorified with elite speeches of Chairman, Vice Chairman, Management Committee members, Technical Committee members, Donors, Principal, Vice Principal, HR Manager, Alumni, their parents etc. The program took us back to the evergreen golden memories through select elegant performances from Reva Festivals of yesteryears. Dr. Omprakash Mahadwad, Head, CT Dept. delivered vote of thanks at the end. The program was coordinated by Ms. Monika Patel and Mr. Harshal Patil under the active leadership of Dr. Omprakash Mahadwad, Head, CT department.



*Dignitaries of SRICT Management addressing the audience*

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## ANNUAL HEALTH CHECK-UP FOR SRICT EMPLOYEES

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At SRICT we strongly believe that a ‘sound mind can exist only in a sound body’. Both are equally important when it comes to sound ideas and ideologies at workplace.

SRICT management takes good care of its employees’ health -be it physical or mental. A comprehensive health check-up event was arranged for SRICT faculty and staff members including JRFs and auditors by competent and experienced doctors from Smt. Jayaben Modi Hospital, Ankleshwar in Physics Lab of SRICT on 12th December 2019. It was made mandatory for all the employees to undergo the health check-up. Different pathological tests including blood test, urine test, RBS, BMI, ECG, Colour blindness were conducted by the medical team. More than 100 employees underwent the comprehensive health checkup. The event was well coordinated by Mr. Harshal Patil, Assistant Professor under the guidance of Dr. Omprakash Mahadwad, HoD, Chemical Technology and Dr. Snehal Lokhandwala, Principal, SRICT. Faculty members from Dept. of Chemical Technology along with few dedicated student volunteers took enough efforts that facilitated smooth and effective conduction of events.



*ECG Test*



*Preliminary Tests*



*Organizing Team*

## ACTIVITIES OF SRICT-ISR

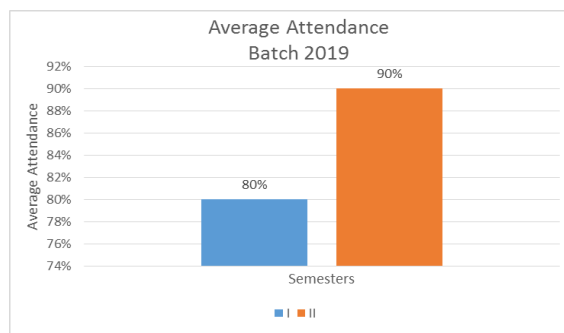
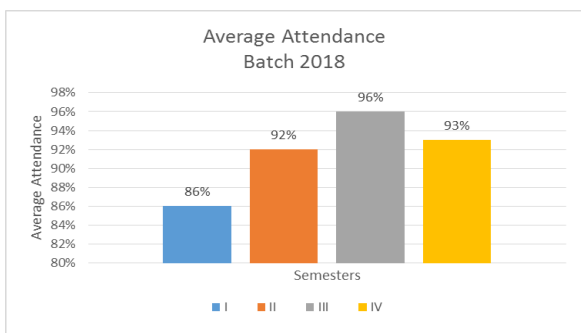
SRICT-ISR is one of the best institutes in terms of Education, Infrastructure, and personal development of a science student with Chemistry background. It was established in 2018 with a motto of nurturing the science graduates and taking them to the next level of masters which is the need for all the chemical industries.

The admissions for M.Sc are taken care by Veer Narmad South Gujarat University. But as expected by us, we got a very good response from the students from entire south Gujarat and our institute was there first choice.

### ADMISSIONS at SRICT-ISR

Admission Batch	No. of Girls	Cut off %	No. of Boys	Cut off %	Total	Cut off %	Name of college
Batch-2018	17	54.5	23	59.4	40	54.5	J.P.College, Bharuch NCSC, Bharuch J.M.Shah, Jambusar Vidhyadeep, Kim P.T.Science, Surat Govt.Science, Vankal S.R.M.J.S.S., Valia
Batch-2019	21	62.2	12	61.8	33	61.8	J.P.College, Bharuch NCSC, Bharuch P.T.Science, Surat S.R.M.J.S.S., Valia S.S.Agrawal, Navsari Vidhyadeep, Kim M.R. College, Rajpipla V.S.Patel, Billimora

The Management of the institute i.e. Ankleshwar Rotary Education Society has always believed in quality education and attendance is the one of the fundamental thing which has direct relation with the overall performance of the student. It's a unique feature of our institute and all the faculties see to it that the students attend all the lectures. The graphs below show the consistency of students for attending their regular classes.



SRICT-ISR always believe in upbringing the student academically and polishing their basics so that what they learn at their PG level can be well understood and they can perform in a better way. The students also take the lectures, assignments and tests in a very serious way and improve their performance on regular and inclined basis.

## ACADEMIC PERFORMANCE

Admission Batch	Sem.	No. of Appeared students	Passed %			No. of students having First class		
			Boys	Girls	Total	Boys	Girls	Total
Batch-2018	I	40	56.5%	52.9%	55%	11/13= 84.6%	9/9= 100%	20/22= 90.9%
	II	39	60.8%	76.4%	69.2%	10/14= 71.4%	11/13= 84.6%	21/27= 77.7%
	III	33	88.88%	93.3%	90.90%	11/16= 68.8%	13/14= 92.9%	24/30= 80%
Batch-2019	I	33	91.66%	70%	78.12%	9/11= 81.81%	13/14= 92.85%	22/25= 88%

## SHINING STARS

Sr. No.	Batch	Semester	Name of Student	SGPA
1	2018	I	Patel Artee	7.67
2	2018	I	Patil Dipali	7.5
3	2018	I	Patel Dipesh	7.33
4	2018	II	Shaikh Farida	7.67
5	2018	II	Patel Artee	7.0
6	2018	II	Khan Alfiyanaaz	6.67
7	2018	III	Shaikh Farida	8.17
8	2018	III	Patel Artee	8.00
9	2018	III	Pillai Amal, Khan Alfiyanaaz	7.83
10	2019	I	Desai Vidhi	7.83
11	2019	I	Raval kinnari, Patel Sharmila	7.33
12	2019	I	Kachhiya Dinki	7.17

## INDUSTRY VISITS

The main aim of Industrial Visit is to provide an exposure to students about practical working environment. This also provide students a good opportunity to gain full awareness about Industrial practices. Through IV students get awareness about new technologies.

Industrial visits offer a great source to gain practical knowledge. Students can observe and learn as to how theoretical concepts are put to into action, thereby aiding their practical learning. Students are exposed to real working environment and shown how things are done in an organization.

The main factor behind this is it lets students to know things practically through interaction, working methods and employment practices. Moreover students get exposure from academic point of view.

The following industries were visited by the students during their tenure at SRICT\_ISR

BEIL, ETL, Sugar factory, Colocem, Shree colospense, Colortex, Intas Pharma .....



## TRAINING AND PLACEMENT

Sr. No.	Name of Students	Name of Industry
1	Patil Dipali	BEIL Infrastructure Ltd., Ankleshwar
2	Khan Alfiyanaaz	BEIL Infrastructure Ltd., Ankleshwar
3	Patel Artee	BEIL Infrastructure Ltd., Ankleshwar
4	Patel Dipesh	BEIL Infrastructure Ltd., Ankleshwar
5	Shaikh Mohammadaasif	BEIL Infrastructure Ltd., Ankleshwar
6	Patel Namrata	BEIL Infrastructure Ltd., Ankleshwar
7	Rathod Jaydipsinh	Cadila Healthcare Ltd., Ankleshwar
8	Patel Nikhil	Cadila Healthcare Ltd., Ankleshwar
9	Vashimkar Tushar	Rallis India, Dahej
10	Patel Ankur	Rallis India, Dahej
11	Rana Maunang	Rallis India, Dahej
12	Purohit Devarshi	Rallis India, Dahej
13	Vasava Hitesh	J K Paper Ltd. Ukai
14	Mohamad Aashif	BEIL Infrastructure Ltd., Ankleshwar
15	Patel Namarata	BEIL Infrastructure Ltd., Ankleshwar

# ACTIVITIES IN THE DEPARTMENT OF CHEMICAL ENGINEERING

- A group discussion was organized for 7<sup>th</sup> sem students of Chemical Engineering on 10<sup>th</sup> October, 2019 on the topic Professional Skill Development.
- A one day training program on “Process Simulation using CHEMCAD on 6<sup>th</sup> March 2020 was organised. The main aim of this program was to provide basic knowledge of different types of software used in the chemical industry.
- Best poster award won by Dhruvil Shah CE sem 8 at national convention on quality concept held at IIT BHU, Varanasi 27-30<sup>th</sup> December 2019.



*Certificates & trophies won at IIT, BHU*

- Students of Chemical Engineering and Chemical Technology Department of SRICT secured 1<sup>st</sup> Runner up position in “Chem Fusion 2020” organized by IChE student chapter, Nirma University Ahmedabad on 4<sup>th</sup> and 5<sup>th</sup> March 2020.



*1<sup>st</sup> Runner up position in “Chem Fusion 2020”*

- IChE best student chapter award won in 2019 to Shroff S R Rotary Institute of Chemical Technology

## Faculty Achievements

### Paper presentation

- Jignesh Joshi, Alok Gautam “Extraction of Stevioside and Rebaudioside from Stevia Rebaudiana Bertoni leaves: A Review” SCHEMCON 2019 .
- Rekha Kanzariyaa, Shina Gautam, Alok Gautam, Sachin Parikh, Sugar cane molasses: a promising and abundant carbon source for polyhydroxyalkanoates production, at SCHEMCON 2019



- Sonal B Prajapati, Shina Gautam, Pyrolysis of e-waste to generate fuel oil: a review, SCHEMCON 2019.
- Vaibhav Pandere, Shina Gautam, Alok Gautam, Development of fluidized bed pyrolyser for pyrolysis of WEEE, SCHEMCON 2019.
- Shraddha Pandya, Shina Gautam, Alok Gautam, Optimization of corn drying using RSM and ANN, SCHEMCON 2019 .
- Krunal S Ramanandia, Shina Gautam, A review on coagulation as a treatment method for industrial landfill leachate, SCHEMCON 2019 .
- Sourav Choubey, Purna Goshwami, Shina Gautam, Literature review on recycling of electrical and electronic waste using electrowinning, SCHEMCON 2019 .
- Bhavin Kabariya, Alok Gautam, Shina Gautam, recovery and recycling of cod test reagent from wastewater, SCHEMCON 2019.
- Harsh Patel, Alok Gautam, “Gasification of Mixed Solid Waste”, SCHEMCON 2019.

#### **Best Paper Award**

- Jignesh Joshi, Alok Gautam have received the best oral paper award in SCHEMCON 2019 for paper “Extraction of Stevioside and Rebaudioside from Stevia Rebaudiana Bertoni leaves- A Review ”.
- Shraddha Pandya, Shina Gautam, Alok Gautam, have received the best oral paper award in SCHEMCON 2019 for paper “Optimization of corn drying using RSM and ANN”.

#### **Publications**

- Sushmita Sharma, Alok Gautam, Shina Gautam, A greener Approach to Extract Copper from Fertilizer Industry Spent Catalyst, Arabian Journal of Science and Engineering, 2020.

#### **Projects sanctioned**

- Dr Shina Gautam and Dr Alok Gautam have received sanctioned project Conversion of urban solid waste at distributed level into value added products, sponsored by Department of Science and Technology, New Delhi from 2020- 2023, sanctioned amount 82.94 Lakhs.
- Dr Shina Gautam and Dr Alok Gautam have received sanctioned project Utilization of Sludge from Common Effluent Treatment Plant for Extraction of Polyhydroxyalkanoates (PHA) sponsored by Department of Science and Technology, New Delhi from 2020- 2022, sanctioned amount 58.4 Lakhs.

#### **Student start up India grants (SSIP)**

- Dr Shina Gautam supervisor for UG students was granted 65,000 rupees under the title of “Application of pyrolysis char in wastewater treatment” in 2020.
- Dr Alok Gautam supervisor for UG students was granted 68,000 rupees under the title “ Biodiesel from cooking oil” in 2020.

#### **Awards and Recognition**

- Dr. Shina Gautam and Dr Alok Gautam received the Guru-Tech award from Hon. Education Minister of Gujarat, VC of GTU on 5 Sep 2019.



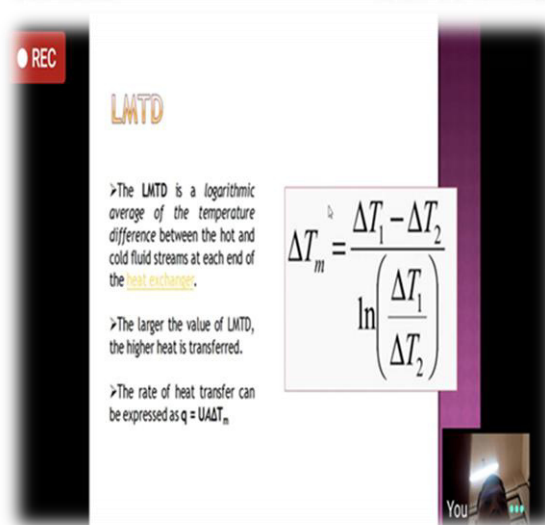
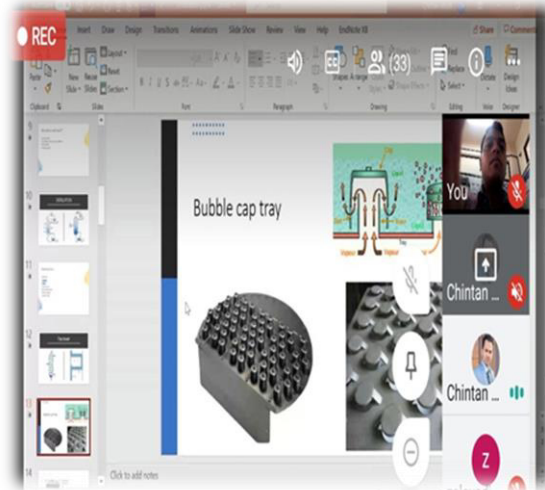
*Guru-Tech award received from Hon. Education Minister of Gujarat and VC of GTU*

- Best oral paper award in SCHEMCON 2019, India for paper “Optimization of corn drying using RSM and ANN”.
- IChE best student chapter award in 2019 to Shroff S R Rotary Institute of Chemical Technology.

### Online webinar

A webinar was organized on Google meet on 23rd, 24th and 25th of June 2020 for the Diploma Engineering students. The topics of the webinar were Heat Exchangers, Distillation and Material Balance

calculations. 56 students attended the webinar. The webinar was very informative and students asked several queries at the end of the session.



*Webinar for diploma engineering students*

### Industry Visits

Godrej	Lupin Ltd
Solvay Specialities India Ltd	Privi Organics
UPL-5	Heubach India
Zydus Cadila	Prime Consultants and VP Engineers
Heubach India	Pranami Drugs Pvt. Ltd
GNFC	Kanoria Chemicals



*Industry visits*

### Expert Lectures

Topic name	Speaker
Fundamentals of Chemical Engineering	<b>Mr. Saumil Shah</b> , Senior Safety officer, GNFC, Bharuch.
Process Safety Management	<b>Mr. Jagdish Modi</b> , Senior Safety officer, GNFC, Bharuch.
Petrochemical Industries-Boon to the Society	<b>Mr. Sushil Kumar</b> , Retired President, RIL, Dahej.
Application of ANSYS in Chemical	<b>Mr. Krunal Patel</b> , Business Development Manager, Flexus

Industries	Technology and Services, Vadodara
Dryers for Industrial Applications	<b>Mr. Dharamvir Singh</b> , Production Engineer, Solvay, Panoli.
Constitution of India (Article 15)	<b>Mr. Sushil Kumar</b> , Retired President, RIL, Dahej.
General Aspects of Energy Management in Perspective of India	<b>Mr. Shantanu Das</b> , Head-Energy Management Cell, RIL, Dahej.
Pumps and Compressors	<b>Mr. Love Patel</b> , Process Engineer, Galaxy Surfactants, Jhagadia GIDC.
Energy Conservation	<b>Mr. K V Suresh</b> , Head-Energy Cell, UPL, Jhagadia.
Methanol: A Growth Engine	<b>Dr. V. V. Mahajani</b> , Retired Professor, ICT-Mumbai, Mumbai.
Industry 4.0	<b>Mr. Rajnesh Bajaj</b> , GM, L & T, Mumbai.
Pumps and Valves	<b>Mr. Rilesh Mehta</b> , Process Engineer, Solvay, Panoli.
Safety Audit and Hazop Study	<b>Mr. Saumil Shah</b> , Senior Safety officer, GNFC, Bharuch
Filtration	<b>Mr. Manoj Bhagwat</b> , Unit Head, Privi Organics Ltd, Jhagadia.
Mechanical Operations and Its Industrial Applications	<b>Mr. Param Naik</b> , Director, Mahavir Synthesis Pvt Ltd., Surat.
Basic Principle and Design Aspect of Distillation	<b>Mr. Rahul Chaudhari</b> , Process Engineer, UPL-5, Jhagadia.
Application of Chemical Reaction	<b>Mr. Amol Dhondge</b> , Director, Mahavir Synthesis Pvt Ltd.,

Engineering in Reactor Design	Surat.
Motivational Talk on Chemical Engineering	<b>Mr. Anish Shah</b> , DG, R.I. District.
Key Aspect of Distillation Design	<b>Mr. Love Patel</b> , Process Officer, Galaxy Surfactants, Jhagadia GIDC.
Chemical Engineering in Pharma Industry	<b>Mr. Mahendra Patel</b> , QA Head, Sun Pharma, Ankleshwar.
Process Simulation of a Reactor Using CHEMCAD	<b>Mr. Gautam Pradhan</b> , Technical Director, Innovent, Pune.
Safety Audit and Hazop Study	<b>Mr. Saumil Shah</b> , Senior Safety officer, GNFC, Bharuch.



*Expert lectures*

## ACTIVITIES IN THE DEPARTMENT OF ELECTRICAL ENGINEERING

- Under the banner of URJA CLUB, **Technical Quiz Competition on “Fundamentals of Energy Conservation”** was organised for 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> semester EE students. On 6<sup>th</sup> September 2019, a Slogan Writing Competition on **“Energy Conservation”** was organised for 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> semester EE students.
- **“Mock Drill Activity on Industrial Safety”** for 4<sup>th</sup>, 6<sup>th</sup> and 8<sup>th</sup> semester EE students was organised on 4th January, 2020. These events were coordinated by students Sachin Chauhan, Nirav Bhatt and Tarki Shahid under the guidance of faculty members Mr. Ankur K. Gheewala, Mr. Jignesh Joshi, Assistant Professors, DEE and Mrs. Jalpa Thakkar, HOD, DEE, Coordinator-URJA CLUB.





*Technical Quiz Competition*



*Mock Drill Activity on Industrial Safety*

- The Department of Electrical Engineering, SRICT organized a documentary video session about Nikola Tesla for all the Electrical Engineering Students on 10/8/2019 under the banner of The Institution of Engineers (India), SRICT, Students'

Chapter (Electrical). Students enjoyed the session a lot and was coordinated by Mr. Nirav Bhatt, 7<sup>th</sup> Semester Electrical Engineering.



*Video Session About Nikola Tesla*

### **Short Term Training Program**

SRICT always believes in continuous improvement of faculty members by supporting them to join in various short term training programs. Mrs. Jalpa Thakkar, Asst Prof & Head, Department of Electrical Engineering attended a short term training program on, "Technical Writing using Latex" at MNIT, Jaipur during 20<sup>th</sup> -24<sup>th</sup> December, 2019.



*STTP @ MNIT, Jaipur*

## Technical Workshop Series- TECHWORKS 20

In association with the Institution of Engineers (India) Students' Chapter (Electrical) the fifth one day state level workshop was organised. The workshop was conducted for final year diploma students of Gujarat on the topic of "Modern Power System Protection" on 31<sup>st</sup> January 2020, 1<sup>st</sup> February 2020, 12<sup>th</sup> February 2020, 4<sup>th</sup> March 2020 and 7<sup>th</sup> March 2020. More than 200 students and faculty members participated in the workshop.

The aim of this workshop was to make students aware of Basic & Practical approach of Power System Protection and train them so that they can be ready for industrial practical exposure. The Practical sessions were handled by expert faculty members and positive responses were received from participants.



*TechWorks 2020*

### Students' Achievements

- Ms.Palak Pawar, 8<sup>th</sup> Sem secured 1<sup>st</sup> Runner up position in GTU Zonal Youth Festival (Surat Zone) for singing competition.
- Ms.Palak Pawar, 8<sup>th</sup> Sem secured 2nd position (1st runner up) in 8th youth festival of Surat zone organized by GTU and SNPITRC, Umrakh in the category of Music (Light Vocal-Indian).



*Ms. Palak Pawar @ 8<sup>th</sup> Youth Festival  
GTU*

- Mr. Faiyaz Patel, received appreciation from Mr. Ponnusamy Pillai, Dy. General Manager, Electrical, UPL-3 for Sharing his innovative ideas regarding Power Savings - Solar System implementation in car parking and canteen area.



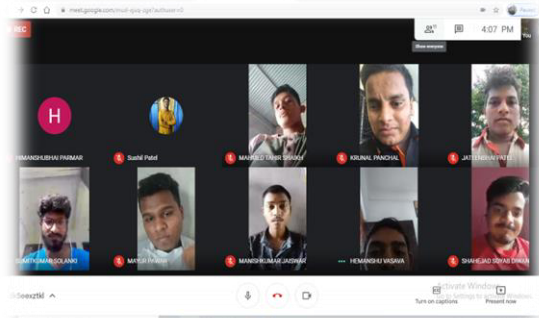
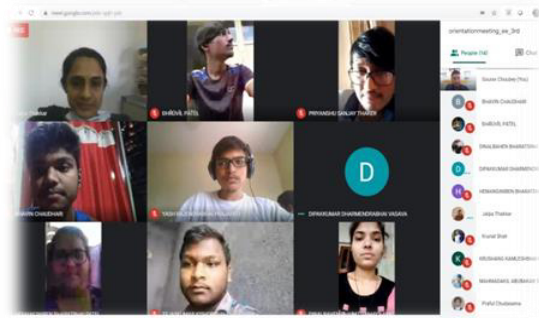
*Mr. Faiyaz Patel, appreciated by Dy.  
General Manager, Electrical, UPL-3*

- 25 PLIs were conducted by Electrical Engineering students of semester 8<sup>th</sup>, 6<sup>th</sup> and pass-out students of batch 2015 for the Current Semester Electrical Engineering Course.

### **Online Orientation Program for Electrical Engineering students**

An orientation program for Electrical Engineering Students on 23/06/2020 was organised. All the students of Electrical

Engineering were briefed on the Online teaching policies. Mrs. Jalpa Thakkar, HOD, Electrical Engineering welcomed them in the Department of Electrical Engineering and informed them to follow all the rules and regulations. Class coordinators Mr. Sourav Choubey, Mr. Krunal Shah and Mr. Ankur Gheewala presented details of Attendance, IV, EL & PLI.

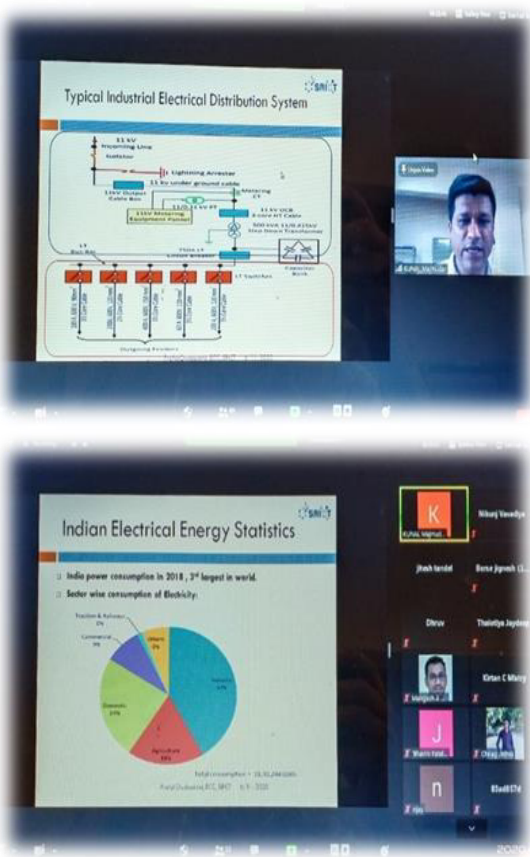


*Orientation Program for DEE Students*

### **Webinar on Electrical Energy Conservation in Industry**

A Webinar on “Electrical Energy Conservation in Industry” was delivered by Mr. Praful Chudasama on 11<sup>th</sup> June 2020. More than 200 participants enrolled for this program from various Diploma colleges of Gujarat and other states. The webinar was hosted by Mr. Jignesh Joshi (Assistant Professor, DEE-SRICT) and executed successfully under the guidance of Ms. Jalpa

Thakkar, Head of Electrical Engg Dept., SRICT.



*Webinar on Electrical Energy Conservation in Industry*

## Webinar on Semiconductor Devices & its Application

A webinar for 12<sup>th</sup> Science students specially designed for GUJCET aspirants on the topic of “Semiconductor Devices & its Application” was conducted on 10/06/2020. More than 1019 participants enrolled for this program from various schools of Gujarat and other states. The lecture was delivered by, Mr. Sourav Choubey and hosted by Mr. Hiren Jariwala (Assistant Professors, DEE).

UPL SRICT Rotary

DEPARTMENT OF ELECTRICAL ENGINEERING

SHROFF S. R. ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY

Organizes a Webinar On  
**Semiconductor Devices & its Application**

10<sup>th</sup> June, 2020  
10.30 AM to 11.30 AM

**SPEAKER**  
Mr. Sourav Choubey,  
Assistant Professor,  
Electrical Engineering,  
SRICT

Registration Link:  
[https://docs.google.com/forms/d/4e/1FAIpQLScmDjkpppXDauv8WuKUKAokncjTPN2H5-uR1GEeXta-fw/viewform?usp=cf\\_link](https://docs.google.com/forms/d/4e/1FAIpQLScmDjkpppXDauv8WuKUKAokncjTPN2H5-uR1GEeXta-fw/viewform?usp=cf_link)

E- Certificate will be provided to all the Attendees

For Any Assistance Please Contact:  
Ms. Jalpa Thakkar  
Head of Electrical Engineering Dept.  
Mob No.: 9998005760

Mr. Hiren Jariwala  
Asst. Professor, DEE  
Mob No.: 9998838416

Types of Semiconductors contd.

2) Extrinsic Semiconductors (Pentavalent or Trivalent)  
Extrinsic Semiconductors: Ex: P-type and N-type

Donor impurity contributes free electrons  
Acceptor impurity creates a hole

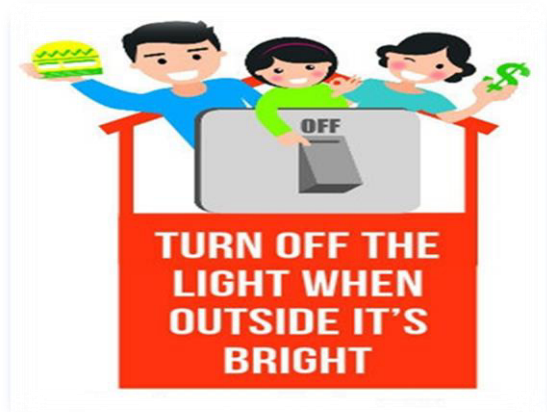
n - type p - type

*Webinar on Semiconductor Devices & its Application*

## Global Wind Day Celebration

In association with Global Wind Day celebration on 15<sup>th</sup> June 2020, and The Institution of Engineers (India), SRICT, Students’ Chapter (Electrical) jointly organized an online Quiz and One Liners’ Competitions on Renewable Energy. 167 participants enrolled for this competition from various Diploma colleges and schools from Gujarat and other states. Participants were awarded cash prizes worth Rs. 1750/-. The event was coordinated by Ms. Richa Dubey (Assistant Professor, DEE-SRICT)

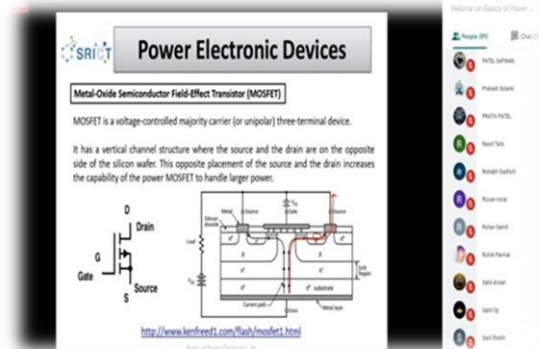
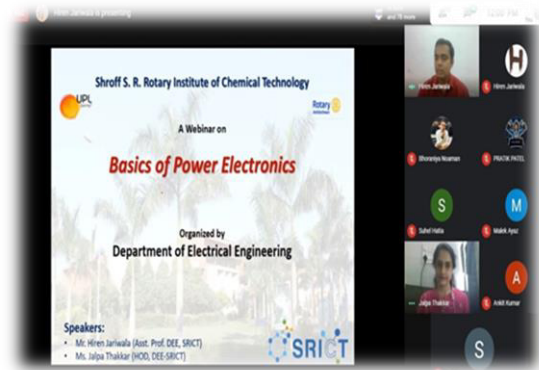




Online Session for Global Wind Day Celebration

## Webinar on Basics of Power Electronics

An online webinar for Diploma Electrical Engineering students, specially designed for Semester-5 and 3 on the topic was organised on “Basics of Power Electronics” on 30/07/2020. 114 participants from Semester-5 and 3 of Diploma Electrical Engineering from A. Y. Dadabhai Technical Institute, Kosamba enrolled for this program. The webinar was conducted and coordinated by Mr. Hiren Jariwala (Assistant Professor, DEE-SRICT)



Webinar on Basics of Power Electronics

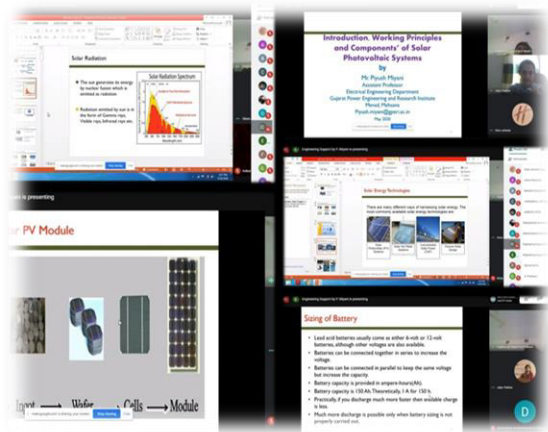
## Faculty Achievements

- Mr. Krunal Shah, Asst. Prof. attended e-FDP on Teaching in Uncertain Times: Opportunities and Challenges jointly organised by GTU Ahmedabad and Babaria Institute of Pharmacy, Vadodara from 30<sup>th</sup> April to 5<sup>th</sup> May 2020.
- Mr. Praful Chudasama, Mr. Hiren Jariwala and Mr. Krunal Shah, Asst. Prof. attended INTERNATIONAL TECH CONCLAVE organized by IEEE BVM from 26<sup>th</sup> April to 30<sup>th</sup> April 2020.
- Mrs. Jalpa Thakkar, HOD - DEE attended an online webinar on Global Panel Discussion on EDUCATION 4.0: The Revolution organised by Shri

- Vishwakarma Skill University on 11<sup>th</sup> May 2020.
- Mr. Sourav Choubey, Asst. Prof. attended One Week AICTE Sponsored ATAL Academy FDP Course on Artificial Intelligence organized by MNNIT Allahabad from 11<sup>th</sup> May to 15<sup>th</sup> May 2020. Mr. Sourav Choubey, also attended One week Online FDP Program on Renewable Energy sources: "A way Ahead" organized by Cummins College of Engineering For Women, Nagpur & ISHRAE Nagpur chapter from 15<sup>th</sup> to 21<sup>st</sup> May, 2020. Mr. Sourav Choubey, Asst. Prof. attended Online Workshop on Assessment and Accreditation Process of NAAC organized by IQAC of Dhote Bandhu Science College on 15<sup>th</sup> June, 2020
  - Mr. Jignesh Joshi, Asst. Prof. attended Professional Development Hours High Efficiency DC/DC converters with a new coupled -Inductor-Rectifier Structure organised by PDH IEEE Continuing Education, New York on 26<sup>th</sup> May 2020.
  - Ms. Richa Dubey, Asst. Prof. attended STTP on Power Electronics for Distributed Generation and Electrical Drives organized by SVNIT, Surat during 02<sup>nd</sup> to 05<sup>th</sup> March 2020.
  - Mr. Praful Chudasama, Asst. Prof. attended an Online FDP on Outcome based curriculum design organized by National Institute of Technical Teachers Training & Research, Chandigarh from 01<sup>st</sup> June to 05<sup>th</sup> June 2020. Mr. Praful Chudasama, also attended an online FDP on Leadership and Team Work for Performance Excellence organized by National Institute of Technical Teachers Training & Research, Chandigarh from 18<sup>th</sup> May to 22<sup>nd</sup> May 2020.
  - Mr. Hiren Jariwala, Mr. Krunal Shah Asst. Prof. attended an Online FDP on Outcome based curriculum design organized by National Institute of Technical Teachers Training & Research, Chandigarh from 01<sup>st</sup> June to 05<sup>th</sup> June 2020.
  - Mr. Praful Chudasama, Mr. Hiren Jariwala, Mr. Krunal Shah Asst. Prof. attended an Online FDP on Leadership and Team Work for performance Excellence organized by National Institute of Technical Teachers Training & Research, Chandigarh from 18<sup>th</sup> May to 22<sup>nd</sup> May 2020.
  - Mr. Ankur Gheewala, Ms. Richa Dubey Mr. Krunal Shah and Mr. Hiren Jariwala, Asst. Professors . attended an Online FDP on Application of Power Electronics in Smart Grid and Electric Vehicle organized by AICTE Training And Learning (ATAL) Academy at Nalla Malla Reddy Engineering College, Hyderabad from 25<sup>th</sup> August to 29<sup>th</sup> August 2020.
  - Mr. Hardik Solanki, Lab. Asst. attended an Online FDP on Innovation Management organized by AICTE Training and Learning (ATAL) Academy at GTU from 24<sup>th</sup> August to 28<sup>th</sup> August 2020.

## Expert Lecture on Topic “Introduction, Working Principles and Components of Solar Photovoltaic Systems”

The Department of Electrical Engineering, SRICT had organized an Online Expert Lecture for students’ of Sem-2, 4, 6 and 8 on the topic of “Introduction, Working Principles and Components of Solar Photovoltaic Systems” on 18<sup>th</sup> May 2020. The lecture was delivered by Prof. Piyush Miyani, Department of Electrical Engineering, GPERI, Mehsana.



*Expert Lecture on Photovoltaic System*

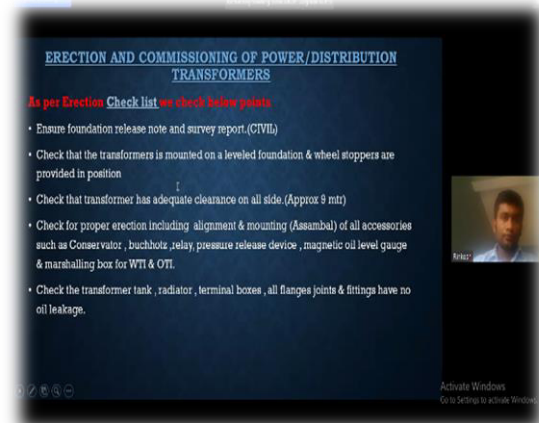
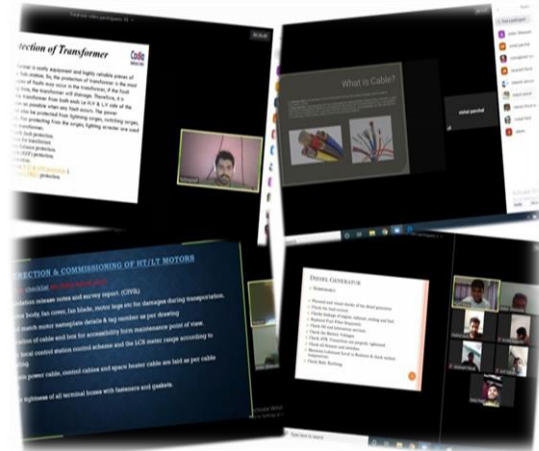
### Expert Lectures

Topic Name	Name of Expert
Industrial Safety Practices	<b>Mr. Jawahar Varelani</b> (Head-HR, Safety and Business Strategy, Riddhi Pharma)
Solution of Numerical Aptitude with Vedic Maths	<b>Mr. Nirav Makwana</b> (Senior Press Reporter, Print Media, Gujarat Guardian)
Preventive Maintenance of AC Motors	<b>Mr. Jaykumar Degadwala</b> (Electrical Executive, BEIL Infrastructure)

	Limited)
Indian Constitution-The Fundamental Right to Freedom under Article 19	<b>Mr. Gaurav Patel,</b> (Senior Advocate, Gujarat High Court)
Basics of Transformer and Its Maintenance	<b>Mr. Vijay Verugamwala</b> (Assistant Manager, Electrical Department, Rallis India)
Electrical Maintenance Practices in Industries	<b>Mr. Vinod Patel</b> (Manager-Maintenance, GRP Reclaim Rubber)
Application of Protective Relays in Industries	<b>Mr. Ajay Mahajan</b> (General Manager-Electrical, Birla Copper)
Effective Leadership Qualities	<b>Mr. Hiren Maisuriya</b> (HR Manager, Breaks India Pvt. Ltd)
Recent Trends of Instrumentation Techniques in the Industry	<b>Mr. Milind Vaidya</b> (Senior Manager, Indo Baijin Chemicals Pvt. Ltd.)
Application of Power Electronics devices in Industries	<b>Mr. Krishna Murthy Rao</b> (Senior Manager, Electrical, EWAC Alloys Limited)
Energy Conservation Basic related to Electrical Engineering	<b>Mr. Jay Mehta</b> (Electrical Executive, Energy Cell, UPL-5)
Latest trend in substation automation & protection	<b>Mr. K. S. Shah</b> (Chief Manager-Electrical, GNFC Ltd.)
Design of Substation	<b>Mr. Keval Velani</b> (Design Engineer, Takalkar Power Engineers & Consultants Pvt. Ltd.)

Testing and detailed Analysis of Different Types of Transformer	<b>Mr. Ajaysinh Dodiya</b> (Head and Manager of Electrical Department, Firmenich Aromatics Production India Pvt. Ltd.)
Design of Earthing System	<b>Mr. P. B. Mehta</b> (Owner, Persotech Solutions)
Employability	<b>Mr. Himanshu Bhatt</b> (Owner, Rahi Engenius Solutions)
Insulation Coordination	<b>Mr. Shiladitya Sen</b> (Manager-Electrical, Reliance Industries Limited)
Erection and Commissioning of Industrial Electrical Equipments?	<b>Mr. Rinkesh Kansara</b> (Electrical Project Engineer, Aditya Birla Grasim)
Maintenance of Electrical Equipments	<b>Mr. Parth Rana</b> (Officer, Electrical, Rusan Pharma Ltd.)
Cable Standardization	<b>Mr. Vishal Panchal</b> (Project Executive, UPL-5)
Substation Engineering	<b>Mr. S M Takalkar</b> (Director, TPEC, Vadodara)
Role of Transformers in Industries	<b>Mr. Nishant Sharma</b> (Senior Executive Engineer, Zydus Cadilla)
Power Quality Issues in Distributed Power Generation	<b>Dr. Ashutosh Giri</b> (Assistant Professor, GEC Bharuch)
Innovation By Design	<b>Dr. B. K. Chakravarthy</b> (Professor, IDC School of Design, IIT Bombay)
Distance Protection of Long Transmission Lines	<b>Mr. Jignesh Desai</b> (Assistant Professor, SCET, Surat)

Understanding Ethical Culture in Business	<b>Ms. Madhu Ars</b> (5S/ Lean Consultancy & People Development)
Electrical Maintenance in Agro Industries	<b>Mr. Vardhil Shah</b> (Executive Maintenance Engineer, UPL-00)



*Glimpse of Expert Talks*

## Industry Visits

<b>Akhil Industries</b> GIDC Industrial Area, Ankleshwar	<b>132kV Kolhapur Substation</b>
<b>Tula Trans Electricals</b> Surat	<b>GETCO, Substation-400Kv</b> Hadala
<b>Jay Khodiyar Electricals</b> Ankleshwar	<b>HIEE</b> Hyderabad
<b>Viketa Electronics</b> Ankleshwar	<b>SGS Tekniks</b> Bangalore
<b>GETCO, Substation-400Kv</b> Kosamba	<b>NTPC</b> Vindhyachal
<b>Reliance Transformers</b> Panoli	<b>BEIL</b> Ankleshwar
<b>GERRESHEIMER</b> Mumbai	<b>Trimurti Transformer</b> Ankleshwar
<b>Happy Engineering</b> Surat	<b>Krishna Transform Industries</b> Bharuch
<b>UPL-00</b> Vapi	<b>Elcop Controls</b> Bharuch
<b>5MW Solar Plant</b> Maharashtra	<b>General Electro Engineers</b> GIDC, Ankleshwar



*Industry Visit to Viketa Electronics Ankleshwar*



*Virtual Visit to GERRESHEMER, Mumbai*



*Visit to Industrial Expo @ Dahej*

# ACTIVITIES IN THE DEPARTMENT OF MECHANICAL ENGINEERING

## Technical workshops

A whole day workshop on hands-on practice on SOLIDWORKS was conducted by Sopan Infotech for 6th semester Mechanical Engineering students on 4th of February 2020. The workshop was coordinated by Mr. Ankit Solanki and Mr. Amit Galphade under the guidance of Dr. Hemant Kumar Gupta. Workshop focused on giving ideas to students on what are solidworks, its capabilities and its applications in industry. Students were given demonstrations of how solidwork is used in developing complicated designs. Further, students were explained different modules and they prepared different models using solidworks and learnt how to use software for designing. Students were enthusiastic about the workshop and enjoyed using solidworks for creating models.



*Hands-on Practice on SOLIDWORKS*

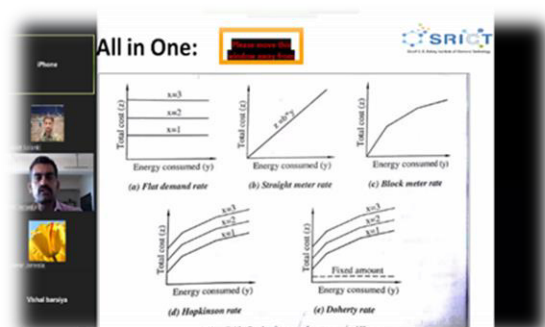
A workshop was arranged for the diploma students of 4<sup>th</sup> semester from Rajpipla Polytechnic College in SRICT. The topic was

“Fundamentals of manufacturing processes”. This event was organized by Mr. Samik Bhatt. The sessions of theory & practicals during the workshop, were delivered by Mr. Samir Jariwala and Mr. Satish Verma. Students got basic information regarding the manufacturing processes and were made aware of the important technical aspects of the subject.



*Diploma workshop on Fundamentals of Manufacturing Processes*

Webinar on “Tariff Calculation for Power plant” was conducted on 02-06-2020 by MED. The event was coordinated by Samir Jariwala and conducted by Hiren Mahida. Total 119 participants registered from 4 different Diploma institutes of Surat zone.



*Webinar on “Tariff Calculation for Power plant”*

Workshop on hands on practice on ANSYS software was held on 27<sup>th</sup> September 2019 during Technovation 2019. The workshop was

conducted by Mr. Krunal Patel, Head & Technical Engineer of Flexustech, Vadodara. The focus of the workshop was to give a basic idea of ANSYS, its different modules and how it is helpful in analyzing the models in the designing process. 94 students registered for the event. The session of Mr. Krunal Patel was thought provoking and very informative. Students had good exposure and enjoyed the workshop.



Visit to MachAuto Expo-2020 at Ludhiana

### Visit to Mach AutoExpo-2020

8<sup>th</sup> semester students visited the “9<sup>th</sup> Mach Auto Expo 2020, Ludhiana” \_an



Hands-on Practice on ANSYS software

exhibition on Machine, tools and automation technology on 21<sup>st</sup> to 24<sup>th</sup> February, 2020. The Expo focused on engineering machinery, machine tools, auto parts, hand tools, CNC machines, SPMs, automation technology and many more. Students saw 850<sup>+</sup> machinery in operation and 10,000<sup>+</sup> products and services related to Mechanical Engineering during the four-day visit. Mr. Ankit Solanki and Mr. Maitreya Pandya accompanied the students during the visit.

### Student Participation

Name of Student	Event Name
Chirag Modi	Fundamentals of Welding,
Chirag Modi	The Grand adventure called life
Chirag Modi	Photography workshop
Chirag Modi	Friends beyond the boundary
Jayesh Patil	Microsoft Advertising certified professional studies
Jaydeep Vansia	GaneshKala (Drawing)



PLI conducted for 6<sup>th</sup> sem students by ALUMNI

- 32 PLIs were organised for 4<sup>th</sup>, 6<sup>th</sup> and 8<sup>th</sup> semesters from December 2019 to May 2020.
- 23 PLIs were organised for 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> semesters from July 2020 to till date.

## Orientation Program for Mechanical Engineering students

Orientation Programs for 3<sup>rd</sup>, 5<sup>th</sup> & 7<sup>th</sup> Semester students were organised for sharing information on online teaching scheme, policies of attendance, exam and other activities like IV, EL, Aegis etc on 19<sup>th</sup> & 20<sup>th</sup> June, 2020. Separate meetings were arranged by class coordinators Mr. Satish Verma, Mr. Shivang Ahir and Mr. Ankit Solanki of 3<sup>rd</sup>, 5<sup>th</sup> & 7<sup>th</sup> semesters in the presence of Dr. Hemant Kumar Gupta HOD, MED and other faculty members.



*Online Orientation Program conducted for 5<sup>th</sup> sem students*

## Industry Visits

The following industries were visited by ME students

<b>Colourtex Industries Limited</b> Vilayat	<b>Omeel Coils, Kin</b> Char Rasta
<b>NPCIL, Kakrapor</b>	<b>Omeel Coils, Kin</b> Char Rasta
<b>Advanced Engineering Works</b> Anklshwar	<b>SPRERI, Anand</b>
<b>Global Ice Factory</b> Anklshwar	<b>Plastico Pumps</b>
<b>JMT Industries</b> Sachin, Surat	<b>JMT India, Surat</b>
<b>NTPC, Jhanor</b>	<b>Todi Rayons Pvt Ltd, Kim</b>
<b>NTPC, Jhanor</b>	<b>JMT India Limited</b> Surat
<b>SUMUL Dairy</b> Surat	<b>Borosil India Limited, Jhagadia</b>
<b>Anklshwar Industrial Exhibition</b>	<b>Piramal Glass Limited, Kosamba</b>







*Industry Visit at Piramal Glass and  
SPRERI, Vallabh Vidhyanagar*

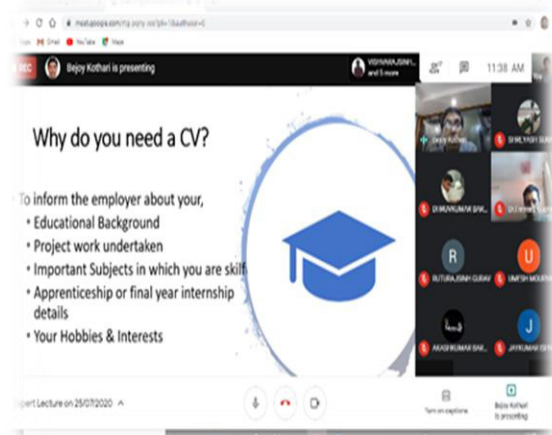
### Expert Lectures

Topic Name	Name of Expert
Welding Process & its defect	Mr. Hitesh Desai, Associate Manager, Welspun Ind. Corp. Ltd.
An introduction to pressure vessel & ASME codes	Mr. Himanshu Bhatt, Owner, Rahi Engenius Solutions
Manufacturing Processes	Mr. Antriksh Bhatt, Assistant Manager- Manufacturing Processes, Suzlon Energy Limited
Solar Energy- A renewable energy source	Mr. Deepak Gadhia, Chairman, CSP India Pvt. Ltd.
Welding Process & its defect	Mr. Hitesh Desai, Associate Manager, Welspun Ind. Corp. Ltd.
Campus to Corporate- Industry 4.0	Mr. Kavishwar Kalambe, Manufacturing Head, INEOS Styrolution
Employability	Mr. Himanshu Bhatt, Owner, Rahi Engenius Solutions
Refrigeration & Air Conditioning	Mr. Rajeev Tyagi, General Manager Engineering, Zydus

	Cadilla, Ankleshwar GIDC
Solar Energy- A renewable energy source	Mr. Deepak Gadhia, Chairman, CSP India Pvt. Ltd.
Campus to Corporate- Industry 4.0	Mr. Kavishwar Kalambe, Manufacturing Head, INEOS Styrolution
Hazardous Waste Management Concepts, Guidelines and Emerging trend on Pre-Processing & its utilisation at Cement Industries.	Mr. Ashish Mehta, Vice President- Technical Services, RSPL, Panoli
Employability	Mr. Himanshu Bhatt, Owner, Rahi Engenius Solutions
Supply Chain Management	Mr. Amol Gulhane, Senior Engineer (Sourcing), L & T (Minneapolis, USA)
Widen your career horizon with public services”	Mr. Sonil Thakkar, Faculty of Indian History (Chahal Academy), Chahal Academy, Ahmedabad
CV preparation	Mr. Bejoy Kothari, General Manager (Marketing & Liaison), BRCPL (BEIL Research & Consultancy Pvt. Ltd)
Manufacturing Processes & ESPRIT CAM Software	Mr. Jitendra singh & Mr. Mitul Patel, Sr. Application Engineer, Sopan Institute of Engineering & Design, Surat
Supply Chain Management	Mr. Amol Gulhane, Senior Engineer

	(Sourcing), L & T (Minneapolis, USA)
Widen your career horizon with public services”	Mr. Sonil Thakkar, Faculty of Indian History (Chahal Academy),Chahal Academy, Ahmedabad
Institute-Industry Differences	Mr. Antriksh Bhatt, Assistant Regional Manager, Suzlon Energy Ltd.
How to prepare and attend an interview	Mr. Bejoy Kothari, General Manager (Marketing & Liaison), BRCPL (BEIL Research & Consultancy Pvt. Ltd)
Manufacturing Processes & ESPRIT CAM Software	Mr. Jitendra singh & Mr. Mitul Patel, Sr. Application Engineer, Sopan Institute of Engineering & Design, Surat
Supply Chain Management	Mr. Amol Gulhane, Senior Engineer (Sourcing), L & T (Minneapolis, USA)
Widen your career horizon with public services	Mr. Sonil Thakkar, Faculty of Indian History (Chahal Academy), Chahal Academy,Ahmedabad
Institute-Industry Differences	Mr. Hitesh Desai, Associate Manager, Welspun Ind. Corp. Ltd.
How to prepare and attend an interview	Mr. Himanshu Bhatt, Owner, Rahi Engenius Solutions
Manufacturing Processes & ESPRIT CAM Software	Mr. Antriksh Bhatt, Assistant Manager- Manufacturing Processes, Suzlon Energy Limited
Supply Chain Management	Mr. Deepak Gadhia, Chairman, CSP India

	Pvt. Ltd.
Widen your career horizon with public services”	Mr. Hitesh Desai, Associate Manager, Welspun Ind. Corp. Ltd.



*Expert Lecture on Preparation of CV & Interview by Mr. Bejoy Kothari*



*Expert Lecture on Campus to Corporate-Industry 4.0 by Mr. Kavishwar Kalambe*

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# ACTIVITIES IN DEPARTMENT OF ENVIRONMENTAL SCIENCE & TECHNOLOGY

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## **Inauguration of Student Chapter**

Indian Institute of Engineers (IEI) Students' chapter was inaugurated on 24th December 2019. Chief guest of the event was Mr. Kirti H Shethna (Chairman, IEI, Surat chapter) and the event was graced with the presence of Mr. Dipak G Patel (Secretary, IEI, Surat chapter), Shri Ashok Panjwani (Chairman, ARES), Shri Angiras Shukla (Secretary, ARES), Dr Snehal Lokhandwala (Principal, SRICT) and Ms Pratibha Gautam (HOD, Department of Environmental Science and Technology).

The chapter will provide student members a platform for networking, bonding and promoting innovation and research in common interest i.e. engineering. The event was coordinated by Assistant Professor, Mr Akash Rawal.



*Inauguration of (IEI) Student Chapter  
(SRIC/EN) (393135/SRIC/EN)*

## **One day state level seminar on “Pollution prevention in Chemical Industry”**

One day state level seminar on “pollution prevention in chemical industry” organized by department of environmental science & technology, sponsored by the Department of Science & Technology, Government of Gujarat & Gujarat Council on Science and Technology (GUJCOST). Seminar was coordinated by Ms. Pratibha Gautam, HOD, DEST. Chief guest of the event was Dr. Mrityunjay Chaubey, Global Vice President – Environment, sustainability & green cell, United Phosphorus Limited. Seminar involved active participation of delegates from 22 industries.

## **Activities Done By Faculty Members**

As a precautionary measure against covid-19, hand sanitizer, which was later named as ,SRICTIZER was prepared by Dr. Snehal Lokhandwala along with Mr. Pintu Prasad .SRICTizer was very useful to all employees of SRICT including housekeeping staff.

## **WEBINAR on Techno-Economic Feasibility of Zero Liquid Discharge Projects**

Webinar on Techno-Economic Feasibility of Zero Liquid Discharge Projects by Department of Environmental Science and Technology.

A webinar on Techno-Economic Feasibility of Zero liquid discharge projects was delivered by Dr. Mrityunjay Choubey

Global Vice President (Environment & Sustainability) UPL Limited, on 31st May 2020. At the outset of the meeting Ms. Pratibha Gautam, gave a brief introduction regarding various activities carried out in the department. Subsequently Dr. Choubey briefed about Zero liquid discharge (ZLD) and various technologies available for its implementation. He also detailed case studies about sustainable aspects of ZLD scheme which is being implemented successfully at various units of UPL Limited. Feasibility studies of 2.5 MLD plant were also discussed along with comparison of ZLD with salination, RO and MEE. Mr. Ashok Panjwani, Vice Chairman – Shroff S R Rotary Institute of Chemical Technology after the presentation session mentioned that ZLD technology is the need of the hour to ensure self-sufficiency in terms of underground water where even various developing countries are finding it difficult for water sources. Shri Rajju Shroff, Chairman, UPL Limited, Mrs. Sandra Shroff, Chairman of the institute , Mr Ashok Panjwani , Vice Chairman of the institute addressed the online gathering with their views on water conservation and reuse for industries .The webinar was very informative and received a good registration of 1500+ delegates from all over the world. The event was successfully coordinated by Assistant Professor Mr. Kartik S Iyer.

### **Environment Day Celebrations**

WORLD ENVIRONMENT DAY was jointly celebrated with Rotary India Environment mission on 5th June,2020.

To promote environmental awareness among students of Diploma Engineering and Higher Secondary several competitions like

Quiz, Essay Writing and PPT making competitions were organised . 640 Students from various states like Bihar, Odisha, U.P. Rajasthan, Kerala, Maharashtra, Tamil Nadu, Jammu, Gujarat and Daman participated in the competition. The event grabbed a huge response from the student fraternity all over the country and was well appreciated.

The topics of competition involved Environmental awareness and biodiversity. In the valedictory function, Vice Chairman Shri Ashok Panjwani , PDG Pramod Jejurikar, PDG Manmohan Singh, Principal Prof. Shrikant Wagh, Trustee P. N. Parmeshwaran, Vice Principal Prof. Snehal Lokhandwala , HOD Prof. Pratibha Gautam motivated all the students and congratulated the environmental warriors.

The program was attended by Past District Governors, Presidents of various district clubs, HODs and faculty members of SRICT. Also several school students, their parents, teachers, and Principals attended the event



*Environment Day Celebrations*

## **WEBINAR on “Pollution Prevention for Sustainable Industrial Development”**

A webinar on "Pollution Prevention for Sustainable Industrial Development" was successfully organised on July 04, 2020

Eminent speaker Dr. Bharat Jain, Member Secretary of Gujarat Cleaner Production Centre(GCPC) addressed the gathering of more than 350 participants from Gujarat, West Bengal, Punjab, Maharashtra, Andhra Pradesh, Tamilnadu, Chhattisgarh, Madhya Pradesh, Jammu, Uttar Pradesh ,Yemen and Philippines.

The session was well appreciated by the participants from industries, academia and research Institutes. Experts like Dr P N Parameswaran, Dr Mrityunjay Choubey and many researchers and other professionals also appreciated the informative webinar.

The webinar was coordinated by Mr. Manoj Kumar, Assistant Professor (EST)



*Webinar on Pollution Prevention for Sustainable Industrial Development*

## **Motivational Session**

A motivational session for the students of SEM 6 was conducted on 15<sup>th</sup> May,2020. Dr.

Shrikant J Wagh, Dr. Snehal Lokhandwala & Ms. Pratibha Gautam encouraged students to gain maximum knowledge through e-classes. Students were also motivated to use the quarantine period to find newer technologies for betterment of environment and society. The session was coordinated by Mr. Kunal Majmudar – Assistant Professor, DEST.

## **Nature Club Activity Let's Talk**

Nature Club of SRICT and The Institution of Engineers (India) (IEI) students' chapter (393135/SRIC/EN) Jointly organized a presentation competition - "Let's Talk" on 18/01/2020. The event was coordinated by Mr. Darshan Salunke under the guidance of Ms. Pratibha Gautam. Judges of the event were Ms. Priyanka Sharma and Mr. Akash Raval. Participants from various semesters participated in the event.

## **Workshop on Analysis of Water/Wastewater Parameters**

In association with the Institution of Engineers India (IEI) students' chapter 393135 SRIC/EN a one day Workshop for the students of Diploma Engineering College, Shri K. J. Polytechnic, Bharuch was organised on 20/1/2020.

The theme of workshop was "Analysis of water/wastewater parameters" and was coordinated by Assistant Professor Ms. Bhasha Mehta .

Workshop consisted of a lecture by Mr Manoj Kumar, followed by practical session by Mr. Darshan, Ms. Lincy and Ms. Vishakha, where students were given hands-on experience in the laboratory. Workshop was well

appreciated by students and faculty members.



Workshop on Water Parameters

### MOU BETWEEN GCPC & SRICT

Memorandum of understanding signed between Gujarat cleaner production centre (GCPC) and Shroff S R Rotary Institute of Chemical Technology (SRICT) which will promote knowledge sharing, training and technology developments. The MOU was signed by Dr Bharat Jain, Member Secretary, GCPC and Dr Snehal Lokhandwala, Vice Principal, SRICT in presence of Ms. Pratibha Gautam, HOD, Department of Environmental Science and Technology.



*MOU Between GCPC & SRICT*

### Student Achievement

Viraj Prankada, student of semester4, Department of Environmental Science and Technology qualified the exam of International Institute of Fitness Excellence and Management held on 10th February 2020 and was certified as "Personal Trainer" by IIFEM Delhi after completing the training at international level in the month of November 2019.

### Faculty Research Paper

- Pratibha Gautam, Snehal Lokhandwala, "Advanced Oxidation Process for treatment of leachate from Hazardous Waste Landfill: A critical review", ELSEVIER, Journal of Cleaner Production 237(2019)117639.
- Snehal Lokhandwala, Pratibha Gautam, "Indirect impact of COVID-19 on Environment: A brief study in Indian Context", ELSEVIER, Journal of Cleaner Production 237(2019)117639.

### Faculty Achievement

- Ms. Pratibha Gautam (HOD, DEST) and Ms. Bhasha Mehta (Asst. Professor, DEST) completed first round of INDSRICT and were felicitated by Ms. Sandra Shroff (Chairman, ARES, SRICT) for the same.



*Felicitation of Ms. Pratibha Gautam and Ms. Bhasha for successful completion of INDSRICT*

- Professor Snehal Lokhandwala delivered an online lecture on "Heavy Metal Tolerance: A Phytostabilization Approach by Funneliformis Mosseae Mbal to Alleviate Heavy Metal Stress in Chemical Contaminated Soil" at International Conference on Regulation and Protection of Agriculture and Forestry (RPAF 2020) on 6th March 2020.

### Industry Visits

NCTL, Panoli	Anupam Rasayan
Riddhi Pharma	Heubach Colour Pvt. Ltd
BEIL, GIDC Ank	Tagros chemicals India Pvt. Limited
Colortex Pvt Ltd, Vilayat	Globe Enviro Pvt. Ltd.
En vision Surat	BEIL, Ahmedabad
UPL-1, Ank	BEIL, Ankleshwar

Surya Life Science	Narmada Clean Tech. (NCT)
Amul Anand	STP, Anjana
Heubach Unit-1, GIDC Ank	Pragna Dyechem Pvt.Ltd.

### Expert Lectures

Name of Topic	Speaker
Mechanism of Unit Process	Rinsu Varghese
Wastewater treatment	Mr. Param Vatsal
WWT	Mr. Harshul Parekh
VOC and Odour Control	Mr. Rushi Shah
Renewable Energy	Dr. Ajay Chandak
College days	Mr. H Mehta
Noise Pollution	Mr. Ketan Lakhtaria
Unit Operations	Process Engineer (Galaxy)
LET-II	Head HSE (sanofi)
Membrane Bio Reactor	Director (Ompile Velvette)
Solid Waste Management	Manager, Facile Maven
Environmental Management	Head HR, Shreeram Alkali

### Achievement of EST Students in 5S Convention

In the 5S National Convention on Quality Concepts 2019 held at IIT BHU, Varanasi 27-30 December. Following were the competitions in which students of DEST participated.

1. Slogan
2. Poem
3. Skit
4. Case study presentation
5. Poster presentation
6. Quiz

Winners of DEST are as follows:

- Vanshika Rana of EST sem 6 won PAR excellence award for 5S Case study presentation
- Drasti Chaudhary of EST 8<sup>th</sup> sem received the Best Poster Prize.
- Drasti Chaudhari and Vanshika Rana of EST 8<sup>th</sup> sem and 6<sup>th</sup> sem received consolation prize in skit competition event with title: “5S ki neev hogi pakki tabhi to hogi tarakki.”

### Details of Online Courses Done By DEST Students during Lockdown

#### Course Name

- Learn introductory course on climate change
- Climate change international legal regime
- Introductory course to the international legal framework on ozone depletion
- Corona commando
- Covid - 19 - Awareness and Management
- Introduction to environmental governance
- Introductory course to the Basel convention on the control of Trans boundary movement of hazardous waste and their disposal and regional instruments on hazardous waste.
- Introduction to Sustainable Finance
- Introduction to Human Rights and Environment.
- Specialized module on cities and climate change
- Sustainable Diet
- Gender and Environment

## ACTIVITIES IN THE DEPARTMENT OF CHEMICAL TECHNOLOGY

### Industry Visits

The following industries were visited by CT students.

GRP Ltd.	Kohler India Ltd.
Shree Colosperse Pvt. Ltd.	Kansai Nerolac Paints Ltd.
Gujarat Guardian Ltd.	Piramal Glass Ltd.
Riddhi Pharma Ltd.	Subhasri Pigments
Patkar Extrusion Pvt.	Kansai Nerolac Paints ltd.
Colourtex Industries Pvt.	Keval Dye Chem Ltd
Rangam industries	Ami Polymers Ltd
Hema Pharma Pvt. Ltd	Ion Exchange Ltd.
Apex Pharma Chem	Apcotex Industries Ltd.
Norris Medicines Ltd.	Heubach Colour Pvt. Ltd.

### Expert Lectures

Students had an opportunity to listen to the following experts from Industries.

Topic	Speaker
Mr. Kashyap Desai, R&D Manager, Heubach Colours Pvt. Ltd.	Material & Energy balance with respect to pigment industry
Dr. Jayesh Shah, Retired BARC - Head Process Development, BARC	Nuclear waste management



Mr. Mahendra Patel, Manager-QC, Sun Pharma	GMP & USFDA
Mr. C.M. Panchal, Consultant-Eminent Pharma	API-Technology transfer and product commissioning
Dr. Nilesh Mistry, Chief Technology Officer, Lonsen Kiri Chemical Ltd. Vadodara	Challenges in Dyestuff industry
Ms. Akshita Rai, Research Scientist, Hamlai Ind. Pvt. Ltd	Size Exclusion Chromatography
Dr. Anant Desai, General Manager, Jay chemicals Ltd.Vadodara	Synthetic dyes & their methods of application on various fibres
Dr. Namrata Kadwadkar, Professor, ICT, Mumbai.	Panoptic essential oil extraction

**Workshop on “Glasses used for nuclear fuel management”** An online workshop on “Glasses used for nuclear fuel management” for Diploma students was organised on 03/06/2020. The workshop was enthusiastically attended by the diploma students from L.E. College, Morbi, Diploma College, Khurja, and Diploma College Haryana. Total 48 students registered for this workshop. Mr Bharat Patel, H.O.D. L.E. College Morbi appreciated the event .The expert speaker of the day was Dr. Jayesh Shah, retired senior scientist, BARC, Mumbai who delivered an online lecture on the topic “Glasses used for nuclear fuel management”.

The workshop was coordinated by Mr. Apurba Chakrabarty under the guidance of Dr. Omprakash Mahadwad, H.O.D, CT department.

## ACTIVITIES IN THE DEPARTMENT OF MATHEMATICS, SCIENCE & HUMANITIES

SRICT students participated and won various prizes at the National Convention of Quality Concepts organized by QCFI at IIT BHU Varanasi during 27-30 December 2019.



*Dr.Purvi Naik and students at QCFI ,IIT BHU and the laurels won*

Event	Participants	Branch /Sem	Prize
5S Case Study Presentation	Aditya Chaumal	CT/6	Par Excellence Award
	Punit Patel	CT/8	
	Vanshika Rana	EST/6	
Poster Competition	Dhruvil Shah	CE/8	Best Poster
Slogan Competition	Drashti Chaudhary	EST/8	Best Slogan
Skit Competition	Aditya Choumal	CT/6	Consolation Prize
	Punit Patel	CT/8	
	Vanshika Rana	EST/6	
	Shatayu Deshpande	CT/6	
	Ishwar Jadhav	CE/8	
	Drashti Chaudhary	EST/8	

### The Book Lover's Forum and Literary Club-3

On the third meet of the literary club and Book Lovers' Forum, held on 18th of September, 2019, we had a poem recitation and two book reviews. The poem "Youth of today" was recited by Ms.Jagruti of EST 3. It was followed by the review of 'You Can Win' by Shiv Khera. The review was done by Kishan Panchal of Sem3 CE. The second

book review was done by Mr.Amit Galphade (Assistant Professor-ME Dept). Mr.Galphade reviewed 'The Hound of Baskervilles' by Sir.Arthur Conan Doyle. All the reviews and recitation were well received by the audience which was followed by an interactive session by the audience and a vote of thanks by coordinator of the forum Ms.Vinitha Vakkayil.



*Book review during Book Lovers' Forum of Literary Club*

### Webinar on "5S- A way to add value to People, Place and Process"

An online webinar on "5S- A way to add value to people, place and process" on 21st April, 2020. This webinar was delivered by Dr. Purvi J Naik, Professor and Head MSH Department, SRICT. 372 delegates from

different sectors of manufacturing, service and academic institutes registered for this webinar. Dr. Purvi explained the basics of 5S, its methodology and benefits lucidly. The session was very well appreciated by all participants.



Webinar on 5S

## NATIONAL LEVEL “EDU-TECH E-CAMP 2020 FOR PRE ENGINEERS”

### Pathways to Engineering

“Online learning is rapidly becoming one of the most cost-effective ways to educate the world's rapidly expanding workforce.” The event was inaugurated by Rtn. Anish Shah (District Governor 3060), Rtn. Meera Panjwani (DLCC 3060), Dr. Shrikant Wagh (Principal, SRICT), Dr. Purvi Naik (Event Organiser, MSH Dept. SRICT).

Following the guidelines “You can teach people everything they need to know” five days online session which started on 15th June, 2020 under the campaign of Edu-Tech E Camp 2020 for Pre Engineers at National level was organized in association

with Literacy Committee of RI District 3060.

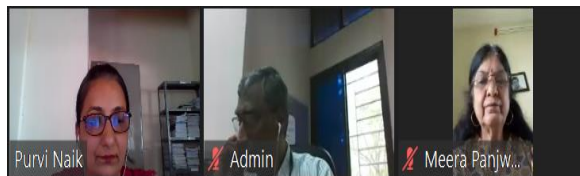
Students’ general curiosity to discover more fascinating depths of Mathematics, Chemistry, Physics and English through various courses including Engineering was rekindled. The lectures were designed to make students aware of their next step to higher education and make their transition from school to college smooth and delightful. Enthusiastic students of 11<sup>th</sup> and 12<sup>th</sup> standards from Telangana, Gujarat, Rajasthan, Maharashtra and abroad joined the session.



E-camp features

This 5 days’ session was meant for senior secondary students who attended a series of lectures of which some were Unlock Physics, Mathemagic, Chemistry Carnival, English Linguistics & Microsoft office (word & excel). Lectures were delivered by Dr. Nikhil Parekh (Chemistry), Ms. Priyanka Sharma (English), Dr. Piyush Mistry, Mr. Dhananjay Chauhan, Ms. Pragna Lad (Maths), Ms. Richa Dubey, Mr. Krunal Shah (Physics), Dr. Divyang Patel & Mr. Ankit Solanki (MS Office). The participants found sessions very interesting and interactive. The E-camp ended on 19th June,

2020 with Vote of Thanks by Dr.Purvi Naik.who appreciated the spirit of students for their devotion and faculty members for their hard work. E-certificates were distributed to all the students for their active participation.



*E-camp jointly conducted with Literacy Committee RI District 3060*

## English Mitra:

A National level e-camp- ENGLISH MITRA was organised from 7<sup>th</sup> August to 11<sup>th</sup> August ,2020.It was a unique program to make Engineering aspirants amiable with the language the world speaks! The camp explored English vocabulary, its usage and nuances of pronunciation through a whole new concept of reverse Engineering . 54 participants from Gujarat and Maharashtra showed zealous interest in the camp by attending all the sessions and actively participating in the interactive sessions on the online platform of zoom . The participants were enthusiastic and enjoyed the interdisciplinary method of learning. English was delivered using the basics of Mathematics, Physics and elements of Electrical and Mechanical Engineering. At the end of each session, a set of technical

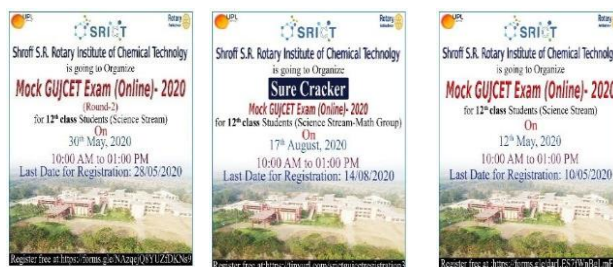
vocabulary was given to all the participants. Sessions were conducted by Dr.Purvi J Naik – Professor and Head, MSH Department, Ms.Vinitha Vakkayil, Ms.Aakancha Kumar(Assistant professors, MSH Dpt), Ms. Richa Dubey (Assistant professor, Electrical Engineering) and Mr.Gunjan Kumar (Assistant professor, Chemical Engineering). All participants were awarded E- Certificates.



*English Mitra features*

## GUJCET 2020 – Mock Rounds

3 online mock rounds for the GUJCET aspirants were conducted on 12<sup>th</sup> May, 30<sup>th</sup> May and 17<sup>th</sup>August 2020 respectively. 804 students from Surat, Ankleshwar, Bharuch, Ahmedabad, Vapi, Ahwa, Navsari, Anand, Vyara, Mundra, Valia, Modasa regions registered for the exam in both English and Gujarati Category.



*Online GUJCET programs*

## Industry Visits

All the 1<sup>st</sup> year Engineering students visited the following industries.

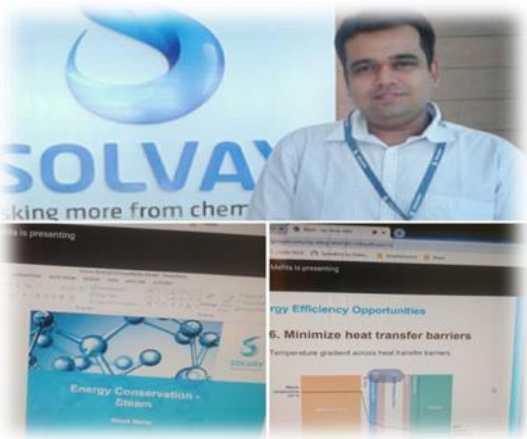
Analpa Industries	Kanoria Chemicals, Ankleshwar
Shree Colospere Pvt. Ltd	Nilkanth Organics, Ankleshwar -Virtual Visit
PragnaDyechem Pvt Ltd,	Shree Navkar Blowpack Ltd., Ankleshwar -Virtual Visit



*Industrial Visits*

## Expert Lectures

Computer Applications in Engineering & Industry	Ms. Vidhi Rai, Augmented & Virtual App Developer, Zensars Innovative Labs, Pune
Chemical Engineering in Different Fields of Life an Introduction	Mr. Arghyadeep Bhattacharya Manager Process Engineering, Lanxess India Private Limited, Jhagaria
Safety in Industry	Mr. Sanjay M. Dharajiya Production Head, UPL, Unit 1, Ankleshwar
Success Mantra	Mr. Nitin Patil Former supply chain Head, Cadila & Sun pharma, Consultant at Swara multiservices
Application of basic utilities and effluent treatment in chemical industries.	Mr. Abhinesh Pillai, Deputy Manager, Engineering, at Lanxess, India private Limited, Jhaghad
Quality concepts in Industry(virtual)	Mr. Yogesh Dave HR, Head of Maldeep Catalyst, Panoli,
Energy Conservation in Industries(virtual)	Mr. Rilesh Mehta, Process Engineer, Solvay Specialties, India Private Limited
Recent Trends in Engineering(virtual)	Mr. Kunj Patel Production Engineer at Real form Technologies, Canada.



*Expert Lectures*

## KNOW OUR FACULTY MEMBERS

**Name:** Dr. Divyangkumar D. Patel  
**Department:** Mechanical Engineering  
**Designation:** Associate professor  
**Education** Ph.D Mechanical, SVNIT  
**Qualification:** Surat.  
**Experience:** 10 Years  
**Academic Interest:** CNC Pocket machining,  
Rapid Prototyping,  
CAD/CAM

**Papers Published:** Journal Papers: 06 Conference  
papers: 08

**Hobbies:** Swimming, reading Bhagavad  
Gita As It Is and Srimad  
Bhagavatam.



**Name:** Dr. Jigisha Ashish Modi  
**Department:** Chemical Technology  
**Designation:** Assistant Professor  
**Education** M.Phil., Ph.D Surat.  
**Qualification:**  
**Experience:** 15 Years  
**Academic Interest:** Pharmaceutical  
Chemistry, Nanoparticle  
synthesis, Green chemistry

**Papers Published:** 11

**Hobbies:** Music and Dance



## KNOW OUR STAFF MEMBERS

**Name:** Mr. Mukund. M. Suthar  
**Department:** ME ( Carpentry )  
**Designation:** Lab Assistant  
**Education** H.S.C. Pass. ITI (Carpentry)  
**Qualification:**  
**Experience:** 38 Years



**Name:** Mr. Praful Mokadam  
**Department:** Chemical Engineering  
**Designation:** Lab Assistant  
**Education** Diploma Chemical  
**Qualification:** Engineering, Diploma In  
petroleum Refining  
Engineering  
**Experience:** 16 Years





## STUDENTS' CORNER



Kaushik Sandeep Vaijapurkar  
(CE Sem 3)-190990105072

### **“Online modalities for Professional Education”**

Learning is skills or knowledge acquired through study, experience or being taught. Online learning is the reimagining of the educational process that maximizes available virtual classroom software to engage geographically-ranged students fully. This environment brings flexibility into the process regarding scheduling, content availability, and structures, which allows students to access the learning material when and where they choose.

The elements of e-learning and traditional learning include similar factors, such as motivation, content stimulus, opportunities to apply education, an assessment which may comprise of quizzes, tests, and demonstrations, and rewards, which are traditionally grades that support the achievement of a degree or certification.

#### **Key benefits of teaching online**

- Increased flexibility of time:
- Increased flexibility of location
- Information sharing more easily and readily
- Diverse and enriching experience
- Streamline of some administrative aspects of teaching.

#### **Methodology of Online Learning**

There are several methods to develop online classes, and these will depend on the topic, student's target, requirements of affiliated organization or institution, and the demands of the user.

Online learning methods can mimic actual classrooms, with required attendance at specific times, can be self-paced, or blended, and use a variety of tools to engage students and support learning.

There are four basic categories of online learning methods:

**Asynchronous Online Courses:**

- The courses are often referred to as self-paced programs and are time independent, meaning that the materials can be accessed 24 hours per day/7 days per week.
- There is usually a component of teacher/student interaction in the form of virtual office hours, weekly or monthly “check-in” online conversations or emails, and other such communications. These courses can often be accessed from multiple devices, making it easy to learn on the go.
- Classes consist of downloadable pre-recorded lectures or slide presentations with or without voice-over commentary. There are often interactive discussion boards or other designated forums that foster student to student interaction.
- Collaborative tools, such as Google Drive, may be used for coordinating group projects or other interconnected activities.

**Synchronous Online Courses:**

- These courses take place in real time and can take many forms including a virtual classroom, live webinar, live webcast, and video/audio conferencing, instant messaging, and more.
- The instructor and students all log into the learning platform at the same date and time and the instructor delivers the lecture, demonstration or other planned learning activity. The process is live, and the students can ask questions in real time.
- Attendance is often taken, and instructors post lecture notes and other materials for students who are unable to attend. Course books must be purchased, and syllabus will note due dates for reading assignments, course schedule, quizzes, tests, papers, projects and other relevant information.
- Medium of this education is through zoom, google meet, Microsoft team, etc.
- These types of courses can be used for any topic but are regularly used with a demonstration or visually-based subjects such as chemistry, physics, engineering, art, photography, among others.

**Hybrid or Blended Online Courses:**

- As the name implies, this course, combines the synchronous and the asynchronous learning systems.
- In this system often the scheduled, live classes take place, also pre-recorded lectures or presentations are delivered to teach additional course materials.
- Another type of hybrid learning called Flipped Classroom Learning, the students are required to self-study a particular topic (mostly online) and interact with the teachers in the classroom to clear doubts.
- This structure is most often utilized for soft-skills training that focuses on person to person interactions.
- Many colleges use this method of teaching.

**Competency-Based Online Courses:**

- It is a personalized approach to learning, where specific skills are mastered to support a particular employment goal.
- A faculty mentor oversees the process and evaluates if and when competencies are reached.
- It is a self-paced program, but unlike a traditional asynchronous learning course, there are no pre-recorded lectures or other materials.
- The student and mentor together create a learning process using the web-based documents, books, and job experience to help the learner develop skills and to define how and when competency has been achieved.
- Some popular example is: Upgrad, Coursera
- This type of courses helps to improve a person 's CV

**Additional Methodology Tools:**

- The nature of an online learning environment allows instructors to go beyond traditional lecture modes to incorporate more engaging and interactive learning processes.
- Successful learning tools include simulations and gamification.
- Simulations help learners to acquire skills in a safe virtual environment which mimics the real world and are cost effective.
- These virtual learning environments are beneficial for college, university and corporate classes that require specific mechanical or process training.
- Through gamification, learning is more fun and increases learner engagement, which decreases the amount of time people spend learning the topic.

Online learning is a growing industry that is quickly overtaking its traditional counterpart. So I would conclude by saying that a teacher must use the best method from the above which suits his teaching style and fulfils his objective. So that he can impart his knowledge to his or her students.



Khyatil Patel  
(CT Sem3)

### **“Life before and after COVID-19 “.**

Frequent visits to shopping malls, movie theatres, restaurants, celebrating birthdays with friends, holiday travel, gym, hugs and handshakes all are cancelled from our list of privileges! Have you ever cherished your visits to these places with an attitude of gratitude in the past?

Lots of changes happened after World War I & II but COVID-19 (which is no less than an emergency situation all over the world) created the big time change of peace-time which is history defining. Maybe we are the last generation with experience of watching movies in cinema halls, shopping at crowded shopping markets, attending weddings, religious functions, public meetings etc with a huge fellow crowd of companions.

Those who complained about growing mismatch of income to high expenses are in a pleasant surprise of drastic reduction of their expenses due to lifestyle changes brought in by COVID-19. Maybe with fear of salary reduction or losing jobs employees are over contributing and extra cautious about their work. As far as the salaried sector is concerned, housing, schooling and medical care are used to contribute 50% to their income; now not any more. COVID-19 opened plenty of opportunities for reputed academic institutions to enrol students in thousands for online courses at reasonable prices while posing fear of closure for other renowned schools, colleges, universities.

Working from home translates into huge vacant spaces of already built commercial at prime locations. Property prices and rental value are bound to reduce with very few expectations. Part of saving expenses spent on travel and hospitality sector will get diverted into acquiring Modern digital gadgets facilitating virtual meetings. Reduced restaurant visits means healthy home foods and thereby better health. Lesser maid or other household service providers means increased sales for house automation, gadgets and household appliances. Writing in the wall being crystal clear , it's time to focus on hygiene, wearing a mask ,washing hands regularly , social distancing to sustain our life and skill development for professional growth; it's going to be the world of those who are ready to adapt fast and clever enough to learn new skills.

**WE ARE AT THE BEGINNING OF THE END, WAITING FOR A NEW BEGINNING**



Monika Sajjansingh Jadiya  
(CE Sem 3)

### **COVID-19“Find a way or fade away”**

Exactly one year before we all were busy in completing our daily tasks; the environment was getting depleted continuously; ozone was at its own rate of getting depleted and the day used to end with news of regular activities of politicians. Nobody had any idea about work from home culture would become a corporate fashion and that too just because of nano-metric virus. This has brought the world to its knees by following its own rule i.e. ‘If you don’t kill corona it will kill you’. Chanakya rightly said “If the enemy is invisible, better hide” and that’s true. Sometimes saying no can save you from life’s greatest pain. Stay at home; Use a mask. Don’t shake hands instead wash them.

All such steps towards being hygiene conscious became a trend and why not India is still in the second stage of pandemic sitting at home and watching deadly scenarios is just like hiding from mass killing outside. As challenges create opportunity: Digital life has become detoxed and we became familiar with the policy of working at home and proved ‘kaid me kehlaye aazad sab’.

One day Covid-19 will surely come to its end and the progression pattern will be much better as people are more educated and tech-savvy. It may be traumatic due to depression by loss of relatives, near and dear ones, side effects of medicine given to survivors, malnutrition. People may be fearful and avoid going to social gatherings. Sport events, theatres, malls, restaurants, gym, international treaties, immigration may not be able to attract mass spectators because economics got fully affected which leads to less buying capacity this will result in elimination of small retail business and thus poverty comes into the picture.

Hopefully the government shall ensure smooth supply of essential goods even after the six months of pandemic exits. Besides this it is certain that the climate and environment of earth are going to be benefited. The Ozone layer has already started healing itself and may recover fully. Wild animals have started wandering around cities. These are the signs of positive establishment of new normal.

‘Things take time’ Keeping this in mind, I would like to conclude by waiting for that time to come soon till then find a way or fade away. Stay healthy and live life fully.

Thank you.



Kashyap Joshi  
(CT sem3)

## **“LIFE BEFORE AND AFTER COVID-19”**

We humankind took everything granted and continued to spoil the environment for selfish goals. Today Mother Earth has taught the lesson very well with the best possible demonstrations.

The current pandemic has placed the whole world at a standstill with nations going into lockdown to stall the virus’s relentless march. Still, there is no specific data on when situations will stabilise. What is certain is that the people are learning valuable lessons through this global crisis, and life after COVID is sure to change for the better. Aristotle, the celebrated philosopher, taught, “It is during our darkest moments that we must focus to see the light.” Thus, this is perhaps the right time to look ahead at expected improvements in the post-COVID world.

### **Sustainable Lifestyle**

People learned to live with the bare essentials during the lockdown. Healthy home-cooked meals replaced junk food. Closed shopping malls highlighted the futility of mindless consumerism. As pollution levels went down and nature flourished, people realised the necessity of a sustainable lifestyle for the health of the planet. In the future, more environment-friendly ways to operate will undoubtedly emerge, like remote working to save fuel and online paperless transactions.

### **Upgraded Healthcare System**

The pandemic stressed the need to prepare the healthcare system for handling rapid surges in the volumes of patients. Steps are underway for creating adequate capacity in hospitals to cope with emergencies better. Digital health technologies like the use of contactless thermometers are on the rise, improving patient care. The contagion has raised awareness among the masses about adequate cleanliness. People are forming habits of wearing masks and washing hands frequently, practices that are certain to develop overall hygiene.

### **Digitally Restructured Education Sector**

Even after the curve of coronavirus spread flattens, the virus will probably continue to exist. Wearing masks, using hand-sanitizers, and maintaining physical distances are going to be the new normal. In this situation, to reduce the chances of contamination, educational institutes have modernise their teaching techniques with smart technologies. During the lockdown, parents are homeschooling their children efficiently, schools and university are taking classes online. virtual classrooms might take over conventional teaching methods.

**Home-Centric Work Culture**

Excessive workloads and long commutes to workplaces robbed modern society of family-time, until the lockdown. In the current scenario, social distancing cannot be fully relaxed until a vaccine helps build up immunity in the majority of the population. Thus, a vast portion of the workforce may not be able to return to the office soon. Work-from-home, meetings through video-conferencing will become the new work culture. People will spend more time with their family when they seek breaks from work-pressure, nurturing closer family-ties.

**Conclusion**

As people work together in breaking the chain of coronavirus infection, a better world is emerging. The tough times are sure to pass, leaving behind the wisdom of practicing compassion and caring for what genuinely matters in life, like the welfare of family members. People have realised the need for precautions and are taking steps against future contingencies, to keep the coming generations safe.

## **Some Interesting Facts**

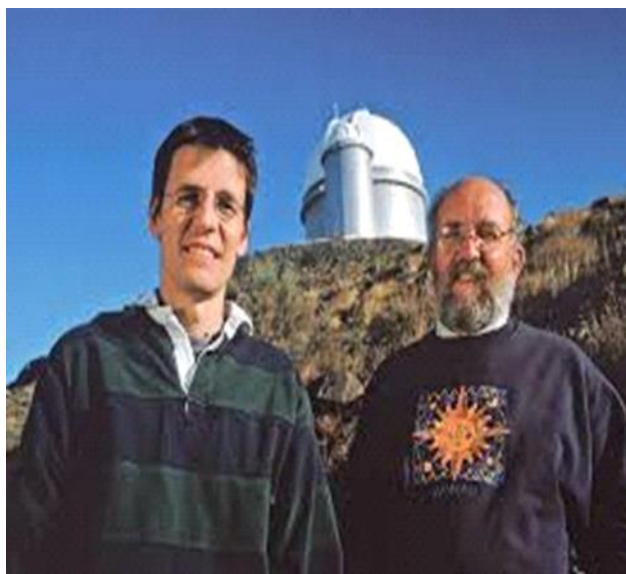
1. A teacher makes personal connection with students; it helps them to relate to what is being thought. Teachers and students have some things in common.
2. More than 65% of teachers used to buy food for their students.
3. It is estimated that 1 in 3 teachers have purchased mittens, coats and other warm clothes for their students.
4. Researches show that 44% of teachers have said salaries at their schools have been frozen.
5. More than half numbers of educators have spent their own money for field trips for students who couldn't afford to pay.
6. Teachers are of the opinion that, donating funds for classroom supplies or donating classroom supplies is the best way to help their schools.
7. Teachers hate failing students. They put their maximum efforts to help a child perform well.
8. It is a proud moment for teachers when former students get in touch and share things with them.
9. A great teacher is a continuous learner. He/she knows that there are things to be learned from everyone, from colleagues, parents, students etc.
10. One of the reasons the WWF chose the panda as their logo was to save printing costs.
11. Panda researchers have to wear panda costumes to work with cubs.
12. A single sneeze travels 100 miles per hour and shoots 100,000 germs into the air.
13. You're born with just 1 pint of blood, but by the time you're an adult you have 4 to 5 quarts.
14. Your stomach acid is strong enough to dissolve metal.
15. The Pacific Ocean is larger than all land masses on Earth combined
16. Babies are born without "kneecaps," as we know them. Babies have cartilaginous structures in their knees which turn to bone by the age of 4.
17. Tsunamis can move at speeds over 500 miles per hour
18. If you keep your eyes open by force when you sneeze, you might pop an eyeball out.
19. Like fingerprints, everyone's tongue print is different.
20. There are no clocks in Las Vegas gambling casinos
21. Your heart beats over 100,000 times a day.
22. Coca-Cola would be green if colouring weren't added to it
23. Dolphins sleep with one eye open.
24. The strongest muscle in the body is the tongue
25. You can't kill yourself by holding your breath
26. On an average, 12 newborns will be given to the wrong parents daily.



## Noble Nobels

- **The Nobel Prize in Physics 2019**

“For contributions to our understanding of the evolution of the universe and Earth’s place in the cosmos” **James Peebles** “for theoretical discoveries in physical cosmology” Michel Mayor and Didier Queloz “for the discovery of an exoplanet orbiting a solar-type star”



- **The Nobel Prize in Chemistry 2019**

John B. Goodenough, M. Stanley Whittingham and Akira Yoshino “for the development of lithium-ion batteries”



- **The Nobel Prize in Physiology or Medicine 2019**

William G. Kaelin Jr, Sir Peter J. Ratcliffe and Gregg L. Semenza “for their discoveries of how cells sense and adapt to oxygen availability”



- **The Nobel Prize in Literature 2019**

Peter Handke “for an influential work that with linguistic ingenuity has explored the periphery and the specificity of human experience”



- **The Nobel Peace Prize 2019**

Abiy Ahmed Ali “for his efforts to achieve peace and international cooperation, and in particular for his decisive initiative to resolve the border conflict with neighbouring Eritrea”



The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 2019. Esther Duflo, Michael Kremer and Abhijit Banerjee “for their experimental approach to alleviating global poverty”



*(Compiled by Mukesh Amchheda CT-sem3)*

# Photography competition on "Biodiversity" organized by Nature Club of SRICT



1st Position  
VirajSinh Chauhan  
Environmental Science & Technology



Purusattam Das  
Environmental Science & Technology



Parekh Prasad  
Environmental Science & Technology



2nd Position  
Dishant Prajapati  
Environmental Science & Technology



2nd Position  
Jaymin Kaushikkumar Tralsawala  
Chemical Engineering



2nd Position  
Rushil Vaghasiya  
Chemical Engineering



2nd Position (Consolation Prize)  
Kher Hardipsinh Rajendrasinh  
Environmental Science & Technology



3rd Position  
Pathan Marufahmad Irfanahmad  
Mechanical Engineering



3rd Position (Consolation Prize)  
Masud Bilal Shaikh  
Chemical Engineering





3rd Position  
Mohit Maru  
Chemical Engineering



3rd Position  
Tasvir Patel  
Environmental Science & Technology

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