

Shri Shamroo Patil (Yadraykar) Educational & Charitable Trust's

SHARAD INSTITUTE OF TECHNOLOGY, COLLEGE OF ENGINEERING

Yodrav (Ichalkaranji), Dist.-Kolhapur (Maharashtra) INBA Accredited Programmes - NAAC 'A' Grade Institution - (An ISO 9001 : 2015 Certified Institute

An Autonomous Institute

THE MEWSLETTER

Department of Mechanical Engineering 2020-21

VOL: 01 ISSUE: 02

Themes Inside

- Department Vision, Mission and Quality Policy
- Department PEO's and PSO's
- Sharad Pattern
- Autodesk Activities
- Expert Guest Lectures
 Conducted
- ISHRAE
- DIPEX21
- Industrial Visits
- Consultancy



Hon. Dr. Rojendra Patil (Yadravkar)
Chairmen
Shamroo Patil (Yadravkar)
Education & Charitable Trust



Dr. S. A. Khot Prindpal



Hon. Mr. Anil Bogone Executive Director Shamroo Patil (Yadraskor) Education & Charitoble Trust



Dr. P. M. Bhagwat HoD, Mechanical Engineering

MESSAGES

From Executive Director Desk:

I am happy and glad that Department of Mechanical Engineering is releasing out Newsletter "APEX" of AY 2020-21 Volume 1 Issue-2. This Newsletter ill showcase the various activities that are happening in the Mechanical Department. It will also build up a spirit of team work which has become essential thing in this competitive world. It will show the department achievements, merits and awards received. This will not only inculcate the documentation culture, also it will create an impact on the readers' mind providing broad visibility and dimensions to the campus. I believe this culture of releasing newsletter will continue forever and introduce the team work and social behavior culture in students.

I am happy that Department of Mechanical Engineer in is bringing out "APEX" of AY 2020-21 Volume 1 Issue-2 Newsletter. This Newsletter will definitely help to showcase the activities that are happening in the Mechanical department. It also helps in building up teamwork which is very much needed today in the world of competition. It provides a platform for exposing the merits and academic achievements of the department. This enhances the documentation culture of the institute. This would definitely create an impact in the minds of readers, by way of providing larger visibility and dimension to the campus. I hope that this culture of releasing Newsletter continue forever and become a quoted example for students.

From Principal Desk

A thought that has been enduring in mind when it becomes real is truly an interesting and exciting experience. This newsletter was one such cherished work that had its roots in the persuasion. It would be a snapshot of the various activities and advancements for all associated with Mechanical Engineering Department. Proper communication plays a vital role in institution's development. This newsletter will serve to reinforce and allow increased awareness, improved interaction and integration among all of us.

Usually we fail to appreciate the good deeds of many people and activities that happen around us as we are engaged in irrelevant talks and assumptions. It could all change if we just pause to think of what is our contribution to the society from which we have been gifted with this blessed life. The progress of the society is mainly depending on many people who are working behind the scenes, overtime round the clock planning things to the smallest. This newsletter will be a medium to provide proper acknowledgement and respect all of these efforts and its results.... Happy Reading!

From Head of the Department Desk:

We entrust that accentuating these areas will make our young students well-qualified to take leadership roles in the future. During this academic year various extracurricular activities were conducted successfully by Mechanical Engineering department like paper presentation, poster presentation. In the view for imparting sound technical and practical knowledge various workshops, guest lectures by prominent personalities and industrial visits have been conducted. Participation by students was the most encouraging feature of last year also various projects by final year students are as per present requirements of industries.

EDITOR MESSAGE

FROM FACULTY EDITOR DESK



Mr. Utkal S. Patil Assistant Professor Dept. of Mechanical Engineering

Dear Readers,

We are presenting you with the Volume 1 Issue 02 of "APEX" Newsletter of the Mechanical Engineering Department.

It has a lot of interesting news which will tell you how our quiet looking department is always abuzz with activity underneath. It is the efficiency of our students and staff that so many activities of different flavours keep taking place and yet the schedules and daily activities don't get disturbed. In fact on surface it is all so calm while a strong current of activity flows underneath. I am deeply thankful for the efforts taken by department faculty, our students and also for the support and encouragement of our Beloved Hon. Executive Director, The Principal, Head of the Department and Faculty members to put forward this Newsletter. I hope this and upcoming Newsletters "APEX" will be very useful and informative to readers.

FROM STUDENT EDITOR DESK



Miss, Shraddha S. Mahadik B. Tech Mechanical Engineering

Our motto is to put forth two Issues of Newsletter in a year. I am deeply thankful for the efforts taken by department faculty, our students and also for the support and encouragement of our Beloved Hon. Executive Director, The Principal, Head of the Department and Faculty members to put forward this Newsletter. I hope this and upcoming Newsletters "APEX" will be very useful and informative to readers.

STUDENT COMMITTEE MEMBERS

Mr. Prabhudd Kamble Publisher Madake Hrutuja Ajit News Head

VISION

To be a center of excellence in Mechanical engineering education to prepare professionally competent engineers with lifelong learning attitude for the accomplishment of ever-growing needs of society.

MISSION

- To prepare technically and professionally competent engineers by imparting quality education through effective teaching learning Methodologies and providing stimulating environment for research & innovation.
- To develop professional skills and right attitude in students that will help them to succeed and progress in their personal and Professional career.
- To imbibe moral and ethical values in students with concern to Society and environment

QUALITY POLICY

We at Mechanical Engineering promote capacity building through education and training quality in the field of Mechanical Engineering to comply with the requirement and continually improve the effectiveness of the quality by involving all stakeholders upgrading facilities and faculty through continuous improvement.

PROGRAM EDUCATION OBJECTIVES

PEO I: Demonstrate capabilities to develop optimal solution to the real world engineering problems by applying theory based practical approach of engineering and related engineering disciplines.

POE II: Exhibit professional skills, ethical attitude and sensitivity towards society and environment.

POE III: Engage in lifelong learning for successful adaptation to technological changes.

POE III: Engage in lifelong learning for successful adaptation to technological changes.

Sharad Pattern



Education is not the amount of information that is put into your brain and runs unrest there, undigested all your life. We must have life-building, man making, character making and integration of ideas. As Swami Vivekananda has aptly said:

"We want that education by which character is formed, strength of mind is increased, the intellect is expanded and by which one can stand on one's own feet".

Today we live in twenty first century. It is an age of inventions and innovations. So, what do you want from education system: to make you just a 'LITERATE' or an 'EDUCATED'. The very word education is derived from the word "Educaire" which means "to bring up". To bring up each and every stakeholder of the system in every aspect it may be economical, social as well as personal. In Sharad Pattern we are committed provide these things.

Education system should not just produce students only as human resource and make them 'knowledge products' and 'services'. But it should aim on all round shaping up of one's personality. In the present system a teacher's concern should be on-not just imparting knowledge but also tapping the inherent talents of a student. Because every human being can be an engineer but not every engineer can be a great human being so we are committed to make student great human being who can lift up others by standing on his/her own feet.

We in Sharad pattern yearn the socio-economical development of all members of SIT family, first and foremost the parents who are actually determining factor of all, then students who are the asset for us, next its faculty from apex to nadir who are backbone of the system and finally the management the prime drive that motivates all of them to work, So we maintain this perfect square by working in unison.

Education should not be limited to books but it needs to be full of interaction, exposure and opportunities. In my opinion, co-curricular activities should be made an integral part of education for the overall development of the student. Besides books and the rat race, the students should be made to follow the moral values. Last but not the least the education should be transformed into a practical process where apart from the texts, there is a space for the students to create new ideas, activities should also be held like – project exhibitions where student can come up with their new ideas, imaginations and try to create something new, something more interesting.....they could try to implement it and move beyond the books. The need of the hour is not just an academic education but we need more practical and value based education. It should be like the words of Swami Vivekananda—" Man making education is what we want

And after all "The education which does not help the common mass of people to equip themselves for the struggle of life, which does not bring out strength of character, a spirit of philanthropy, and the courage of a lion – is it worth the name? Real education is that which enables one to stand on one's own legs. Education must provide 'life-building, man-making, character-making assimilation of ideas". The ideal of this type of education would be to produce an integrated person. We are proud to say that we with the help of Sharad Pattern are actually implementing these things rigorously from its inception and we will take ceaseless endeavors to accomplish everything that has been promised by us. Besides this we will also be an Alma Mater i.e. Caring mother of all its family members.

Best Practices

Certification courses in Innovation Centres

Objectives:

 The main objective is to provide additional skills to the students which will help them for the placement.

2. To collaborate students with the various industry initiatives.

Context: Institute has developed various innovation centers in every department to facilitate students with upcoming technologies and make use of the facility for research and development activity. These centers are over and above the AICTE requirement so no academic lecture practical scheduled on the same. These centers are maid full time available to the students for learning new things. But it is observed that many students are not participating in such activities actively. Also, many students learn and develop some skill sets but they unable to claim the same in front of other peoples. So to give them authentication and encouraging students for active participation certification programs were started.

Practice: With respect to the above context every innovation center started some certification courses in association with supporting industry. In the first phase students are motivated to participate in the learning process. Students who successfully completed the course undergo certification exams and those who get cleared are getting more job opportunities compared to other students. Some certification courses were started by third party agencies or supporting organizations. Some certifications were started by the Innovation center itself. Design and innovation center powered by Autodesk India Pvt. Ltd. doing certification to students with online courses and examinations started by Autodesk University. Institute also runs the Ready Engineers program powered by Tata Technologies Ltd. Students who completed the course successfully and cleared examinations got Ready Engineer certification. The Center of Excellence in VLSI and embedded system runs the courses for the students. Students after completion of all three modules of course certification were given by the institute itself. Similarly, other centers of excellence are working.

Impact: Number of students actively involved in learning in the innovation center. More than 200 students got certification in various courses at Autodesk University. This helps students for placement. 11 students got a placement on the basis of skill sets available in the field of design. 100 students got the certificate as a ready engineer. All students got the apportunity of placement drive organized by Tata Technology. Center of excellence in VLSI and Embedded system gave training to 50 students of Electronics and Telecommunication in association with UTL Technologies Bangalore.

NPTEL Awareness Program.

Goal:

- 1. To motivate students and faculty for Self learning activities.
- 2. To create ICT Tool usage awareness

Context: Institute has very good academic culture. In our region institute is very well known for academics. To do improvements in academics, self learning of students is most important. Many recruiters also recognized need of self learning. In connection with this institute decided to motivate students as well as faculty members to participate in MOOC courses. Being an affiliated institute we are unable to give credit transfer benefit to student but even students provided great support to such extension activity.

Practice: IQAC committee gave instruction for the implementation of NPTEL awareness among students. Initially institute is registered under NPTEL local chapter. Mr. G. V. Pujari working as SWAYAM NPTEL SPOC person. At institute level we created committee of NPTEL. From all department one contact person is selected who encourage students and faculty members to participate. Initially maximum focus is provided on registration for course. Then in next phase students active participation is observed. For that faculty mentors are appointed. Finally students and faculty members are motivated for registration in examination. Fee Reimbursement scheme was launched for year 2018-19 from institute side for the students who cleared the examination. Students who scored more than seventy percent marks are falicited by the institute. This also create positive impact on students side.

Impact: As first step of success 1505 students registered for different courses. They tried to learn the basics. Some students continued the same but few were fail to complete the same. Out of thoese 155 students appeared for the examination and out of appeared students 139 students cleared their examination. All students who gets cleared are falicited by the institute. Also they got benefit of fee reimbursement.

NPTEL

NPTEL is an initiative by the IITs (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and IISc along with full financial support by MHRD.

Objective of the National Programme on Technology Enhanced Learning (NPTEL)

- To enhance the quality of engineering and science education in the country.
- Open online courses learn for free anyone, anytime, anywhere.
- Get certified from the IITs & IISc.
- Developing contents for undergraduate and postgraduate curricula using video and web based courses.
- The objectives of enabling students obtain certificates for courses to make students employable in the industry.
- Pursue a suitable higher education programme.
- Exposure to relevant tools and technologies, are being offered.



Objectives

- To provide students the knowledge information of 3D Mechanical design, visualization & documentation processes that student will use to complete the project for the competition.
- Student would get an opportunity to lay hands on Autodesk design software, understand principles
 of 3D design &clear doubts

Outcomes Excepted

- Develop Physical/ Prototype models for multidisciplinary projects.
- Develop an optimized design for product research and development.
- Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health, safety, manufacturability, and sustainability.

Utilization

- This design & innovation centre has 40 workstations with multiple licenses of the entire suite of Autodesk software's running on them.
- These includes Autodesk Fusion 360, Inventor Professional, Autodesk AutoCAD, etc.
- These licenses will be used exclusively for educational purposes directly related to learning, teaching, training, research and development that are part of the instructional functions.

Activity Completed 2020-21 Sem-II

ir.No.	Date	Time	Diploma/ 8 Tech	Webinar attended class	Content Delivered	Present Student
1	17/04/2021	10.30-12.00 рм	Diploma/ B Tech	Webinor Artended	Introduction to fusion 360 & 3D modeling	35
2	18/04/2021	10.30-12.00pm	B Tech	5 Y Meth.	3D modeling in tusion 360	34
3	19/04/2021	10 30-12.00pm	B.Tech	S Y Mech.	Sculating In lusion	27
4	20/04/2021	10 30-12.00pm	B.Tech	5 Y Mech	Sculpting In Fusion	24
5	22/04/2021	10.30-12.00pm	B.Tech	S.Y Mech	Surface modeling in fusion 360	24
6	25/04/2021	10.30-12 00 pm	B.Tech	S.Y Mech.	3d madeling & assembly of universal cont	27
7	28/04/2021	12.10-2 ¹ 0pm	B.Tech	S Y Mech	intraduction to lusion 360& 3d modeling	
8	01/05/2021	10.00-12.00 рм	B Tech	TY Mach.	3d modeling & Sculpting in tusion 260	
9	02/05/2021	10.30-12.00pm	B.Tech	TY Mech	sculpting in fisien 360	
10	09/05/2021	9.30-11.00 an	8.Tech	S.Y Mech.	introduction to fusion 360& 3d modeling	
11	09/05/2021	11 30-12.30рт	B.Tech	S.Y ETC	Scalpling Cox Body	
12	11/7/2021	10:30-11:30am	B.Tech	S.Y Mech.	Introduction to Fusion 360	
13	18/07/2021	10:30om - l 2:00pm	B.Tech	FY G Div.	3D Modeling in Fusion 360/render in Tusion 360	
14	8/8/2021	10:30:11:30pm	B Tech	RY G Div.	3D Modelling in Fusion 360, Exploring Technical Drawing in Fusion 360 converting to 3D to 2D.	

Autodesk Design Academy Course Certification (online)

5r.No.	Academy Certification	Torget Student	Conducted by
1	Online (mode)	153	Autodesk (Month of March 2021 and June 2021)

Internship 2020-21

Opportunities through Innovation Centre
Autodesk Internship program 2021 for Six months - (April 2021 to September 2021)



Shri ShamraoPatil (Yadravkar) Educational & Charitable Trust's Sharad Institute of Technology, College of Engineering, Yadrav-Ichalkaranji

(Approved by AICTE, New Delhi, Recognized by Government of Maharashtra & Affiliated to JBATU, Lonera)
Accredited by NBA, NAAC & Orade ISO 9001 2015 Certified Institute

Congrats for selection of a intern in Autodesk



Achievement in 2020-21 Sem-II

Techno-Minds-2K21 Mega Event Project Competition

Conducted by : MIT, Auragabad on 18" June 2021

Student ID	Name Project Name		Institute Name	Obtained marks	Remark	
Project180303	1. Amey Amit Jadhov 2. Sartosh Bhanuse 3. Hrutuja A. Madake	Next Generation Autonomous Mine Detection Robot	Sharad Institute of Technology College of Engineering Tcholkaran i (Kalnasur)	59	Second Prize	

Techno-Minds-2K21 Mega Event Innovotive Ideas

Conducted by : MIT, Auragabad on 18" June 2021

Student ID	Name	Project Name Institute Name		Obtained marks	Remark
ID170203	1. Rushikesh Khadakole	Smart Helmet	Sharad Institute of Technic pgy College of Engineering, Ichalkaturij (Knihaguri	62	First Prize

Expert Lectures Conducted

Sr No.	Title of Expert Lecture	Class	Expert Lecture conducted Date	Name of Expert Resource person	Designation	Company/Institute	Time
1	Gate Exam awareness and preparation	SE, TE, BE	19/3/2)	Mr Mandar Deshpande	Central Head	GATE Forum, Kathapur	10 am to 11.30 am
2	Alumni Talk	SE, TE. BE	23/3/21	Mr. Suchansky Rankhamac	Student	Sharad Institute uf Technology College of Engineering Yadrav	10 pm 16 11.30 cm
3	Gateway to success	SE. TE, BE	30/04/21	Mr. Abhishek Beive	Academic Head	Ekeeda Pvt. Ltd. Mumhai	12 10 pm to 2.10 pm
4	Basic understanding of neutron motor and captical air.	SE. TE, BE	1/6/2021	Mc., Srin vasan	Director	ACE Enablers, Channai	1) am to 12,30 pm
5	Industry 4 0	SE. 16, 66	11,76/2021	Mr. Astrash Magdym	Faunder 8 Director	Whiz Key (OPC) Pyt. Ltd. Pyne	10 am to 11.30 am
6	Effective communication	SE, TE, 86	12/6/2021	Mrs Polley Desai	Central Hood	Achievers Academy, Kolhapur	10 am to 11 30 am
7	New Vista of corona discharge based advanced manufacturing in the age of nanotechnology	SE, TE. BE	16/06/21	Dr. Ranjeel Sahu	Asst. Prof.	NITK Surathkal	l) am lo Ipm

1. Gate Exam Awareness and Preparation

Activity conducted date and time: 19/03/2021, 10.00 am

Resource person for Activity : Mr. Mandar Deshpande

Class : SE, TE & BE
Purpose : Guest lecture





Summary:

Mr. Mandar Deshpande working as a central head of GATE forum Kolhapur. He involve in training activity of student regarding competitive exam such as MPSC, UPSC and especially GATE exam.

He explained structure of GATE syllabus and guide students regarding about it. He discussed different opportunities available after qualifying GATE exam such as public sector, research, post-graduation etc. He discussed eligibility criteria of GATE exam, score of GATE exam. Also, he explain about how to prepare for such competitive exam, how to give priority to subjects during preparation. He explain marks weightage allotted to subjects. He motivate students regarding competitive exam. This session ended with question and answering with student and vote of thanks.

2. Alumni Talk with students

Activity conducted date and time : 23-03-2021, 10.00 am

Resource person for Activity : Mr. Sudhanshu Rankhambe

Class : SE, TE, BE
Purpose : Guest lecture



Summary:

Sudhanshu Rankhambe is a student of final year in Mechanical engineering department. He qualify GRE exam and he got admission for post-graduation in Wisconsin University along with scholarship from 13 university. He discuss among students how to prepare for such type of exam, what are the difficulties him facing during study preparation.

He explain need of improvement in communication skill, LinkedIn profile and improvement in developing interpersonal relationship. He motivate students regarding such type of exam and ask them to qualifying and get success in career. Session ended with question and answering with students.

3. Gateway to success

Activity conducted date and time : 30-04-2021, 12.10 pm Resource person for Activity : Mr. Abhishek Barve

Closs : SE, TE & BE
Purpose : Guest lecture

Summary:

This session conducted by academic head of Ekeeda Pvt. Ltd. Mumbai. He involve in training activity of student regarding GATE exam. He emphasize on students self-preparation regarding such exams. He explain about question format and how to prepare for such questions. He explained structure of GATE syllabus and guide students regarding about it. He discussed different opportunities available after qualifying GATE exam such as public sector, research, post-graduation etc. He discussed eligibility criteria of GATE exam, score of GATE exam. Also, he explain about how to prepare for such competitive exam, how to give priority to subjects during preparation. He explain marks weightage allotted to subjects. He motivate students regarding competitive exam. This session ended with question and answering with student and vote of thanks.

4. Basic understanding of induction motor and applications

Activity conducted date and time : 01-06-2021, 11.00 am

Resource person for Activity : Mr. J. Srinivasan
Class : SF TER RE

Closs : SE, TE& BE
Purpose : Guest lecture

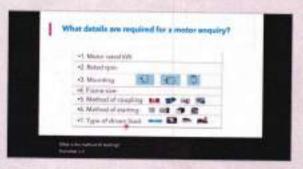
Summary:

Mr. J. Srinivasan popularly known as 'Motor Man' in industries. He is expert in motor analysis, dimensioning, commissioning and testing of motors. He discussed in his session regarding energy scenario and need of energy conservation. In his session he discussed that this topic is multidisciplinary, because except with design of electric motor winding and other electrical parameters, 90% of manufacturing work will be carried out by mechanical engineers. Also sensors and other automated controls requires electronics and computer science engineers. He explain in detail name plate of a standard motor, each letter and symbol explained by him. Session followed by motor construction, details and design considerations for different applications. He also, give overall scenario of motor percentage of induction motor and others. Session ended with question and answering with students and faculties.













5. Industry 4.0

Activity conducted date and time : 11-06-2021, 10 am Resource person for Activity : Mr. Avinash Magdum

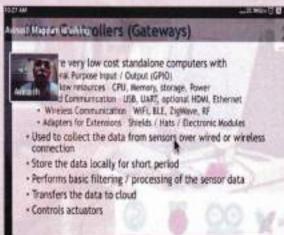
Class : SE, TE & BE
Purpose : Guest lecture

Summary:

Mr. Avinash Magdum has vast experience in software testing and development, consultancy in automation and IoT. He discuss need of IoT in different applications and industry. He discuss few case studies involving IoT, microcontrollers and software used in in such applications. Further he discussed Industry 4.0 has been defined as "a name for the current trend of automation and data exchange in manufacturing technologies, including cyber-physical systems, the Internet of things, cloud computing and cognitive computing and creating the factory". Industry 4.0 is a vision that evolved from an initiative to make the German manufacturing industry more competitive ('Industry 4.0') to a globally adopted term. Industry 4.0 is often used interchangeably with the notion of the fourth industrial revolution. Session ended with question and answering with students.









6. Effective communication

Activity conducted date and time : 12-06-2021, 10.00 am

Resource person for Activity : Mrs. Pallavi Desai

Class : SE, TE &BE
Purpose : Guest lecture

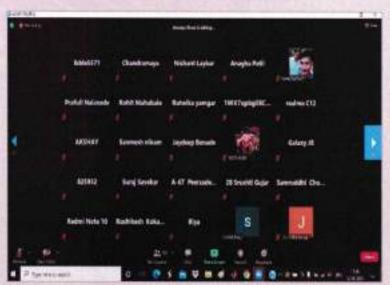
Summary:

Mrs. Pallavi Desai involving in training activities, such as effective communication, personality development, GRE and other competitive exams. She is well known about transforming peoples into speakers. She trained many corporator, MLA regarding public speaking, stage speech, personality development etc.

This session is structured to improve student's communication for helping them in their career. In her session she give four steps to improve communication regarding career development. First content of your resume, second LinkedIn profile, third Focus, fourth commitment. She nicely explain all these terms with same examples. Session ended with question and answering with students.









7. New Vista of corona discharge based advanced manufacturing in the age of nanotechnology

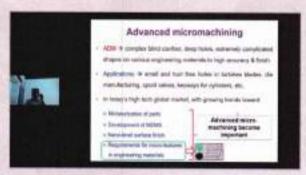
Activity conducted date and time ± 16-06-2021, 11 am Resource person for Activity : Dr. Ranjeet Sahu

Class : SE, TE& BE
Purpose : Guest lecture

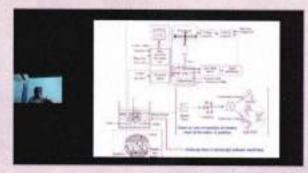
Summary:

Dr. Ranjeet Sahu working as Assistant professor in Mechanical engineering department of NITK Surathkal. He has vast experience in micro and nano machining, nanomaterial synthesis, additive manufacturing and precision manufacturing. He discussed with our students and faculty regarding machining of critical materials, joining of critical materials such as Nicole based alloys. He also explained different experimental setup developed in Surathkal for study of material joining. He discuss his patent filed on 'New Vista of corona discharge based advanced manufacturing in the age of nanotechnology'. He discuss in details of development in nanotechnology and its use in advanced manufacturing technics. Session ended with question and answering with students and faculties.















Covid 19 Vaccination Awareness Poster Competition

Event conducted by: ISHRAE (Kolhapur-Sanglisub Chapter) and NSS unit of

Sharad Instituteof Technology, College of Engineering, Yadrav.

Event Theme: Covid 19 vaccination awareness.

Event Date and Time: 10th May, 2021 whole day.

Winner Categories:

Digital Poster winner. Handmade Poster winner.

Winners:

Digital Poster

1ST WINNER: MR. ABHISHEK MASKE



Handmade Poster

1ST WINNER: MISS.SHREYA TERDALE



Certification: nd Participation certificate provided.

Total number of participations: More than 60 participation all over from INDIA.

Poster Receive: More than 60 posters.

2 ND WINNER - MR. ADESH MOHALKAR



2ND WINNER: MR. SANJAY S.



Prize distribution ceremony:

On 10may, 2021 at 7.30 pm.

Faculty Co-ordinator:

Mr. Vishal Wadkar (NSS faculty co-ordinator) (SITCOE, Yadrav)

Prof. A. S. N. Hussainy (ISHRAE faculty co-ordinator) (SITCOE, Yadrav)

Essay Writing Competition World Environment Day

- Event conducted by : ISHRAE (Kolhapur-Sangli sub Chapter) and Sharad Institute of Technology, College of Engineering, Yadrav.
- Event Name: Essay writing competition event conducted on the occasion of World environment day on 05-06-2021.
- Mode: Event was conducted by online mode through google forms.
- Number of questions contained: above 25 essay have been received.
- Certification: Certificates were only provided to participated candidates.
- Faculty Co-ordinator: Prof.A.S.N.Hussainy (SITCOE, YADRAV)

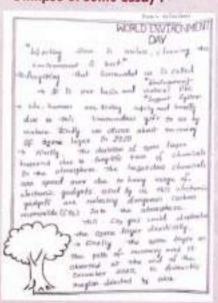
Event Poster:



Event Certificate:



Glimpse of some essay:





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	CATALOG CALL

Techkriti 2021 World Refrigeration Day

- Event conducted by: ISHRAE (Kolhapur-Sangli sub Chapter) and Sharad Institute of Technology, College of Engineering, Yadrav.
- Event Name : Techkriti 2021

Submission of an article on new trends in HVAC sector event conducted on the occasion of World refrigeration day on 26-06-2021.

- · Mode: Event was conducted by online mode through google forms.
- · Number of questions contained : Above 35 articles have been received.
- · Certification: Certificates were only provided to participated candidates.
- · Faculty Co-ordinator : Prof.A.S.N.Hussainy (SITCOE, YADRAV)

Event Poster



Event Certificate



Glimpse of some Articles

Heating, verkisation, and air conditioning SYCACS is the bed-mings of indoor and vehicular environmental comfort, its goal is to provide thermal confort and acceptable indoor or quality. HARC system design is a part of mechanical engineering, based on the principles of thermodynamics, fluid mechanics and heat transfer.

HVAC new trends to look up for future is mainly;-

1. Green technology and eco friendly technology:-

With a green Freduct Strategy, the HVAC military can techce environmental impacts firmuphout the life cycle of peoplets, through the reduction of resource companytion, increase energy efficiency, substituting theretain, and reducing out for emissions

ESoftware automation:

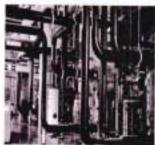
sufcreated maleleneses systems that allow management to control MIAC technology from one centralized point, Maying connected systems allows for one central hub to control all. Whether it is ventilation system or heat exchangers, HEAC speciators can control the whole cooling system via one sentral hub.

J.Solar/Geothermet-

Solar methods of HVAC have been popular for several years in the field of systemable energy. Using panels, solar HVAC yorks can be added to soluting haldings as well as may ones, and saler MVAC see he used for hoth hesting and cooling, making them an attractive option to many

MOTION ACTIVATED AIR CONDITIONING

The conventional HWC system uses refrigerent that haves the emisconvent and depletes. the code layer. The commonly used infrigerants are CFCs and NFCs. Though NFCs has less effect over the count layer as compared to the CPCs but it still plays a role is depletional come layer. A huge time visual the required to make the complete system aso friendly Moreover the other factors like with power consumption and the matter of fact that HAVC. We provide made to other the related to request their or to the contract of a request their or to the contract of the starts only with other storing of engine give in a fix the divelopment of HUAC USING TIC. To electricity problem accountered in conventional HVAC a new all concept is presented in the paper



Article on Recent trends in Refrigeration

T. Majorit Perspection

Report offspecies is a belonge that and the registration offse for party, for a air maximatist sitt regels at titless - but the floor front parameter the side pas one o right) for one less uses of mod's he he need about high to less up four the record interest against the annual new design many rest design and design and design. Next Channes their both search world for a whighester distribe appoint-person factories.

with them. It cannot be such before, it against its the next wide the next is write a closely regime that The sale are given any the entering the regimes days and the the regime for a non-sea, many far rept equips, con-con energy to far and as a coping and subjects and produce passes have the promiter in reduce energy page (6, 4) or 12 person econding to ONE hourse, color to memora discoprant, they make an originate Theoretical or steels in all triving blockets widge, but the real director by to be with the entology. that respective of territoring series a threat during the transposition of the respect facts.

2 Arrighed Social Services

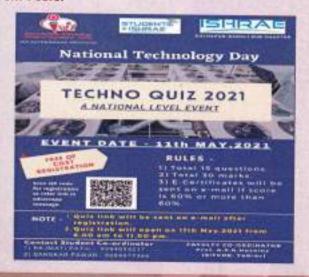
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Drowning of the photosociated between min or or or a responsion to Will be ground and observed tross to in the resolvent to request asset Torough the day

Techno Quiz 2021 National Technology Day

- · Event conducted by -ISHRAE (Kolhapur-Sangli sub Chapter) and Sharad Institute of Technology, College of Engineering, Yadrav.
- *Event Name: TECHNO QUIZ 2021 event conducted on the occasion of National Technology Day on 11-05-2021.
- Event Time: Event time is from 6.00 am to 12.00 pm and the event was conducted by online mode through google forms.
- Number of questions contained: Event contained total 15 questions each of two marks and total marks for the event is 30 marks.
- Passing criteria: The participant must score 60% (18 marks) or above 60% (18 marks).
- Certification: Certificates were only provided to the passed candidates.
- Total number of participations: Participation is more than 900 from all over INDIA.
- Quiz attempted by:- More than 500 participants attempted the quiz.
- *Faculty Co-ordinator: Prof.A.S.N.Hussainy (SITCOE, YADRAV)

Event Poster

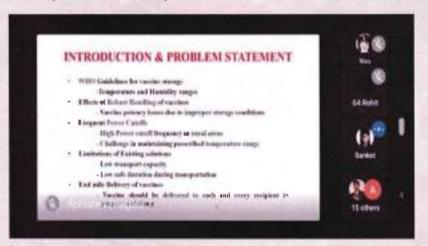


Event Certificate



DIPEX 2021

DIPEX and SRIJAN annually arrange Maharashtra and Goa State level competition during the month of March. Every year, more than 500 teams register for the event and nearly half of them get chance to attend actual project presentation competition held at different colleges in Maharashtra. But due to lockdown, this year, the DIPEX 2021 was conducted in online mode via Google Meet application from 21 nd-27th May 2021. Participants had to present their project with the help of PowerPoint presentation slides to the juries. This year, Tantra ShikshanVidyarthiKarya and Shivaji University also joined DIPEX and SRIJAN for event organization purpose. 600+students in 149+ teams were participated for this event from colleges throughout Maharashtra and Goa state. And we feel really proud and pleasured to mention that this project stood at Winners place in this competition.













Demonstration of Students project "Vaccine Storage System" in-front of Collector and District Magistrate, Kolhapur.



Students of SITCOE Mechanical Engineering department had great opportunity to meet Hon. Daulat Desai sir, Collector and District Magistrate, Kolhapur at collector office. We presented the demonstration of Refrigerated Vaccine Storage System to him and had a knowledgeable interaction with him in presence of Hon. Anil Bagane sir, Executive Director, SITCOE, Yadrav. The objective of this meet is to explore the student project for commercialization for society need.

Industrial visit

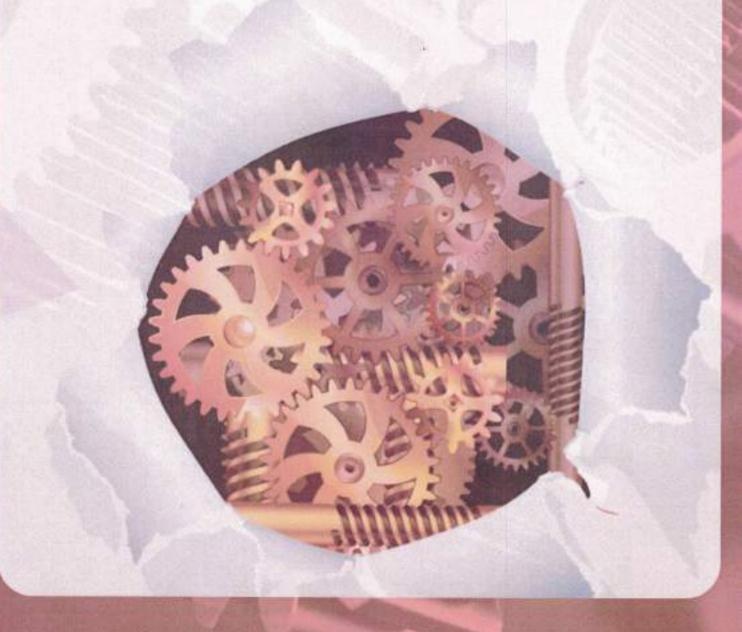
Sr.Na.	Class	Name of Subject	Specification of Visit	In-charge faculty	Visit Date	No. of Students	Visit Place
1	HE-A	Manufacturing Processes-II (Beyond Syllabus)	Manufacturing Processes	Mr.S.B. Kamble	24/3/2021	58	Yash Tools, Shirol
2	TTE-B	Manufacturing Processes-II (Beyond Syllabus)	Manufacturing Processes	Mr.S.S. Patil	25/3/2021	52	Yash Tools, Shirol
3	TTE-A	Refrigeration and Air conditioning	Cold Storage	Mr. D.D.Patil	1/4/2021	40	Gomlesh Cald Storage Mires, MIDC
4	TTE-B	Refrigeration and Air conditioning	Cold Storage	Mr.A.S.N.Husainy	2/4/2021	45	JK ise Plant Mirej MICC

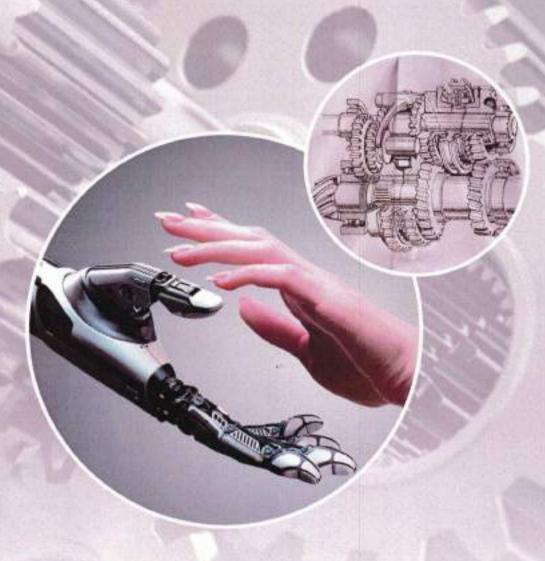




CONSULTANCY

ir.No	Name of Company	Type of Work	Amount in Rs
1	Monantov Shinde SSK.1Jd,Areg	Energy Audit	50000
2	Sheroid Sahakari Sakhar Karkhana Lid	Energy Audit	185000
3	Staree (Judinganga Vedgonga 5.5 K Ltd. Bidri	Energy Audit	225000
4	Sharod Sahakeri Sakhar Karkaana Lid	Material Testing	3000
5	Arihant Sugar Industriess Limited	Material Testing	2000
5	Arihant Sugar Industriess Limited	Moterial Testing	5000
7	Arihant Sugar Industriess Limited	Material Testing	2000
- 10		Total	472000







Shri Shamrao Patil (Yadravkar) Educational & Charitable Trust's

SHARAD INSTITUTE OF TECHNOLOGY, COLLEGE OF ENGINEERING

Yodrav (Ichalkaranji), Dist.-Kolhopur (Mahereshtre)

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An Autonomous Institute

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