

# YANITRAM

DEPT. OF MECHANICAL ENGINEERING



# Vision

To play an active role in producing globally competent mechanical engineers to make technologically proficient, innovative, enthusiastic future leaders and responsible citizen possessing human values to contribute significantly towards meeting global challenges.



# Mission

To serve society through innovation and excellence.

## **Introducing The New Strength of Mechanical Department**



**Dr. Divyangkumar D Patel**

*Designation : Associate Professor*

*Qualification : Ph.D*

*Experience : 8.8 Years*

*Email : divyang.patel@sriect.in*

**Dr. Hemant Kumar Gupta**

*Designation : Professor*

*Qualification : Ph D*

*Experience : 15 Years*

*Email : hemant.gupta@sriect.in*



## Dream big and be persistent

The nostalgic feeling one gets when leafing through the dusty old pages of his college magazine is incomparable. It can make a reader travel down the lanes of memory, giving rise to a surge of emotions of many hues and colors. **Yantram** of Mechanical Engineering is going to give the same pleasure to all the brilliant minds who traverse through the portals of this temple of learning.

This shows the positive and creative energy of faculty members and students present in the college. We proudly publish the **third edition** of magazine in order to show to the outside world, and also to remind the route of mechanical department, the progress we have made so far. We intend to continue presenting the talent and creativity of our students and excellent facilities through **Yantram**.

We invite you to read and immerse yourself in the unfolding art and be exulted.

## The Editorial Board





# SRCT Industrial Visits



**Auto expo-2018, Delhi, On  
09/02/2018 to 13/02/2018 (4<sup>th</sup>  
sem.)**



**Adani Willmar, Katch, On  
19/03/2018 to 21/03/2018 (6<sup>th</sup>  
sem.)**



**IGTR, Ahmedabad, On  
10/04/2018 (8<sup>th</sup> sem.)**



**SPRERI, Anand, On  
15/02/2018 (8<sup>th</sup> sem.)**

**Ankleshwar Expo-2018,  
Ankleshwar, On 11/01/2018  
(8<sup>th</sup> sem.)**





**Offshore Platforms**, Mr. Shailesh Vadher, Manager, L&T, Hazira Surat, On 24/04/2018 to SEM-4.

**Introduction to EPC & Energy Sector and Opportunities Available**, Mr. Vasant Mestry, Managing Director, Suvidya Institute of Technology, On 16/03/2018 to SEM-8



**Manufacturing Processes & its applications**, Mr. Sanjay Makwana, Manager, Miranda tools, Ankleshwar, On 15/03/2018 to SEM-4



**Industrial Safety**, Mr. Jawahar Varelani, Head-HR, Riddhi Pharma, Ankleshwar, On 14/03/2018 to SEM-8 and SEM-4

**Selection & operation of valves**, Mr. Deepak Mirchandani, Manager, Technik Valves PVT Ltd, On 06/02/2018 to SEM- 8 and SEM-6

**Industrial application of ANSYS**, Mr. Krunal Patel, Technical service Engineer, Fluid codes FZLLE, On 22/02/2018 to SEM-6 and SEM-4.



Final year students from Mechanical Engineering Dept. had won **Best Paper Award** at SIEICON 2018 on 9<sup>th</sup> April 2018 (An international Conference on Current Trends and Research in Engineering & Technology at Sigma Institute of Technology, Vadodara).

**Paper Title:** Qualitative and Cost Effective Producer Gas Production System.

**Project Guide:** Mahida Hirenkumar Ranjitsinh

**List of Students:**

Mohit singh,  
Bhatt Jugal,  
Jaydeep Chaudhari,  
Bhargavsinh Solanki

1<sup>st</sup> year student HIMANSHU RAO from Mechanical Engineering Department had won the **BRONZE MEDAL** at National Level in OPEN NATIONAL TAEKWONDO CHAMPIONSHIP 2018 held in Harayana from 12<sup>th</sup> to 15<sup>th</sup> April 2018





# Events by Mechanical Department

Department of mechanical engineering is organizing different games for their students at mechanical seminar hall on 20<sup>th</sup> July, 2018 to 31<sup>st</sup> July, 2018 CARROM, 1<sup>st</sup> August, 2018 to 14<sup>th</sup> August 2018 TABLE TENNIS, 1<sup>st</sup> September, 2018 to 9<sup>th</sup> September, 2018 CHESS, 16<sup>th</sup> September, 2018 to 25<sup>th</sup> September, 2018 SNOOKER.

Final round between department winners 29<sup>th</sup> September, 2018.

## Co-curricular Activities

Department of mechanical engineering is organizing co curricular activities for their students at Seminar hall 5 on 11<sup>th</sup> July, 2018 by Mr. Satish Verma and theme of ADMAD SHOW.



# Summer Training

All students from 7<sup>th</sup> semester mechanical department have undergone summer industrial training in different 25 industries.



asianpaints



Hazira LNG & Port



**ABC**  
Bearings Limited



**FMC**





## New Flexible Packaging Uses Crab Shells and Trees Instead of Plastic

**The material functions in place of most plastic bags and uses chitin from crab shells and cellulose from trees to make the substance.**

Despite more companies reducing the amount of plastic in packaging or creating more sustainable packages, a majority of consumer packaging is plastic. A team from Georgia Institute of Technology wants to add to the growing list of sustainable alternatives with a new type of flexible plastic packaging.

The new synthetic creation would use a material taken from crab shells and tree fibers that could form a plastic-like substance. Chitin -- a fibrous substance -- forms a major part of an arthropod's exoskeleton. Tree cellulose could also be a much more sustainable and easily recyclable alternative. In order to create the packaging, researchers sprayed multiple layers of chitin and cellulose together to form a flexible film that rivals popular plastic packaging wraps.

"The main benchmark that we compare it to is PET, or polyethylene terephthalate, one of the most common petroleum-based materials in the transparent packaging you see in vending machines and soft drink bottles," said J. Carson Meredith, a professor in Georgia Tech's School of Chemical and Biomolecular Engineering. "Our material showed up to a 67 percent reduction in oxygen permeability over some forms of PET, which means it could in theory keep foods fresher longer."

The team created the film by suspending the cellulose and chitin nanofibers in water. Once wet, they spray the fibers onto a surface and alternate the layers.

Once everything dries out, the resulting substance is transparent, stronger than most plastics, and entirely compostable to users



## **Academic Award Degree ceremony of Batch 2014**

SRICT has always believed in commending the students to inspire them to scale greater heights. Academic award ceremony of Batch 2014 "ABHYUDAY-2018 " was held on 3<sup>rd</sup> July 2018 at Diamond theater, Ankleshwar to honour the shining stars of semester VIII and Post Graduate semester IV, who showcased outstanding performance in GTU summer 2018 examination and also the student of EST Krishna Mani, Lashkari Krunal Harshadbhai & Jesal Patel, who score a perfect SPI 10 at University. The Chairperson, ARES, Mrs. Sandra Shroff, Vice Chairman Rtn. Ashok Panjwani, Treasurer, ARES Mr. Kishor Surti, I/C Principal, SRICT Dr. Snehal Lokhandwala graced the occasion and presented the Provisional Degree certificate along with cash prizes and certificate of excellence to the students for their meritorious performance in the presence of their parents & guests from Rotary & Industries. Total cash prize worth of Rs. 12,53,000/- have been rewarded to 150 UG and 07 PG top scorer students by ARES management of SRICT and Gold Medal to Krishna Mani, Lashkari Krunal Harshadbhai & Jesal Patel sponsored by UPL. Head, Department of Mechanical Engg. Mr. Samir Jariwala proposed the vote of thanks. He stressed on the importance of hopes and aspirations and how they are the stepping stones on the path to success.

### **8<sup>th</sup> Sem Students:**

9.5 to 10 SPI: 29 Students with Amount of **480000/-**

9 to 9.49 SPI: 79 Students with Amount of **604000/-**

8.5 to 8.99 SPI: 49 Students with Amount of **167000/-**



## 8<sup>th</sup> Semester Students (2014 Batch)



SHAIKH MOHAMADHAMZA  
MOHAMADASIF  
S.P.I.

## 6<sup>th</sup> Semester Students (2015 Batch)



Panchal Akshay  
S.P.I. 8.97



Pandey Pankit  
S.P.I. 8.97



Fruitwala Naved  
S.P.I. 8.7



Vanath Rajveer  
S.P.I. 8.64





### 1. Mineral Oil

Mineral oils are formulated in a variety of viscosity grades and quality levels. They are recommended for drivers with simple engine designs and regular driving styles. Drivers with a heavy foot or varied driving styles are highly recommended to go for synthetic oils, they have a longer service life and oil drain interval too!

### 2. Synthetic Oil

Synthetic oils are chemically engineered, the oil molecules are therefore more uniform in shape with fewer impurities and better properties than mineral oils. As synthetic oils are formulated with higher performing additives, they tend to perform better at extreme ends of the temperature spectrum, be it high or low.

### 3. Semi-Synthetic Oil:

Semi-synthetic oils use a mixture of synthetic and mineral oils for added resistance to oxidation in comparison to mineral oil and at the same time provide excellent low-temperature properties for your beloved engine.

### 4. High-Mileage Oil

High-mileage oils are specially formulated for older vehicles or newer vehicles with over 100,000 kilometres on the odometer. High mileage oils, with a special blend of additives and formulation, helps to reduce burn-off of engine oil and concurrently helps to prevent oil leaks that may occur in older or high-mileage engines.



# A Five-Day Continuing Education Program on

## “ Innovative Methods for Teaching Mechanical Engineering” 22 -26, April, 2018, NIT Warangal

### Attended By:

1. Mr. Hiren Mahida
2. Mr. Girish Bramhakshatriya





JAI

JAWAN



JAI

KISAN



## EDITORIAL TEAM

**Mr. Shivang Ahir (Assistant Professor)**

**Mr. Amit Galphade (Assistant Professor)**

**Mr. Bhagyesh Patel (7th Semseter)**

**Mr. Tanmay Mandaliya (7th Semseter)**

**Mr. Nishant modi (7th Semseter)**

**Mr. Rajveer Vanath (7th Semseter)**

**Mr. Nikhil Barad (3rd Semseter)**

**Mr. Mihir Suman (3rd Semseter)**

**Mr. Aman Singh (3rd Semseter)**

**Mr. Dhyey Shukla (3rd Semseter)**

