

# YANTRAM 4

DEPARTMENT OF MECHANICAL ENGINEERING



*Energy is future ...Make it bright...Make it renewable*

# **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.

**VISION**



**MISSION**



# **Mission**

To serve society through innovation and excellence.



# INDUSTRIAL VISIT

- ❖ Patel Ice Factory, Ankleshwar, On 19/01/2019 (6<sup>th</sup> sem.)
- ❖ HMP Vocational Training Institute, Kharod , On 18/01/2019 (4<sup>th</sup> sem.)
- ❖ IGTR, Ahmedabad, On 11/01/2019 (8<sup>th</sup> sem.)
- ❖ SPRERI, Anand, On 08/01/2019 (8<sup>th</sup> sem.)
- ❖ Ankleshwar Expo-2018, Ankleshwar, On 05/01/2019 (8<sup>th</sup> sem.)
- ❖ Technomech enterprise, Ankleshwar, On 26/12/2018 (4<sup>th</sup> sem.)
- ❖ Dudhdhara Dairy, Bharuch, On 26/09/2018 (3<sup>rd</sup> sem.)



# EXPERT LECTURES

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- ❖ **“Project Management Principle”,** Mr. Jayesh Ravalia, Project Manager, Godrej Industries Ltd., Valia. On 01/08/2018 to sem 7<sup>th</sup>
- ❖ **“Heat transfer phenomena & its applications”,** Mr. Parixit Ashara, Sr. Engineer - NPP Complex, GNFC, Bharuch. On 04/07/2018 to Sem. 5<sup>th</sup> and 3<sup>rd</sup>.
- ❖ **“Centrifugal Pump Discussion of topics purely based on practical aspects”,** Mr. Dipesh Zaveri, Manager (Mechanical Maintenance), Reliance Industries Ltd., Dahej. On 08/09/2018 to Sem 3<sup>rd</sup> .







# ***MECHANICAL DEPARTMENT STAFF***



**Dr. Hemant Gupta**



**Dr. Divyang Patel**



**Mr. Samir Jariwala**



**Mr. Hiren Mahida**



**Mr. Girish  
Bramhakshatriya**



**Mr. Shivang Ahir**



**Mr. Sahtish Verma**



**Mr. Chetan Patel**



**Mr. Ankit Solanki**



**Mr. Samik Bhatt**



**Mr. Ankur Solanki**



**Mr. Maitreya Pandya**





Mr. Mitesh Gohil



Mr. Vishwadip Ghariya



Mr. Amit Galphade



Mr. Devang Patel

## ***NON-TEACHING STAFF***



Mr. Tushar Jadav



Mr. Chirag Vaghela



Mr. Abhijit Rana



Mr. Paresh Rana



Mr. Mukund Suthar



Mr. Rajesh Patel



# FDPS WORKSHOPS ATTENDED

- ❖ "One day workshop on DIGITALISATION OF MANUFACTURING (3D PRINTING) under the banner of Institution of Engineers (India) organized by Mechanical Engineering Department & TECHNOVATION-2018"
- ❖ "One day workshop on BASICS OF HVAC under the banner of Institution of Engineers (India) organized by Mechanical Engineering Department"





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- ❖ The Programme was coordinated by Mr. Ankursinh Solanki from MED, SRICT throughout the semester.





# FELICITATION PROGRAM OF PEER LEARNING INITIATIVE (PLI)

- ❖ Department of Mechanical Engineering, SRICT, organized felicitation program for the students who conducted PLI on 11<sup>th</sup> January, 2019.
- ❖ Total 89 students from all departments were awarded with total price money of Rs. 32,800/- for conducting the PLI in academic session July–December 2018.
- ❖ Positive feedbacks were given by the students to conduct PEER LEARNING INITIATIVE activity by college.



# PLACEMENT STATUS OF MECHANICAL STUDENTS

## *B.E. MECHANICAL 2014 Batch*

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Company Name	Location	Name of Students
Prafful Overseas	Ankleshwar	Karan Khatri
		Shaikh Salauddin
G.R.P.	Ankleshwar	Raj Parekh
D. C. Enterprise	Surat	Gohil Jayminsinh
		Somaiya Hardik
B.E.I.L.	Baroda	Sunil Patel
B.E.I.L.	Coimbatore	Rathod Keyur
Vintage Infra Equipment Solution Pvt. Ltd.	Ankleshwar	Vansadiya Hardipsinh
		Hatiya Sohel
B.E.I.L.	Ankleshwar	Parthivsinh Yadav
Uniquo	Ahmedabad	Meet Chauhan
B.E.I.L.	Ankleshwar	Siddharth Patel
		Seju Mitesh



# PLACEMENT STATUS OF MECHANICAL BATCH

## *M.E. MECHANICAL (THERMAL ) ENGINEERING 2016 Batch*

Company Name	Location	Name of Students
G.R.P.	Ankleshwar	Uktarsh Modi

## *B.E. MECHANICAL 2015 Batch*

Company Name	Location	Name of Students
UPL	Ankleshwar	Pankit Pandey



# SHINING STARS

## 8<sup>th</sup> Sem.

9.8

SHAIKH MOHAMADHAMZA MOHAMADASIF

9.64

PATEL SIDDHARTHKUMAR VISHNUBHAI

9.64

PATEL SUNILKUMAR GOVINDBHAI

9.48

HATTIYA SOHEL AHEMAD SALIM

9.48

VADHIYA BHARATKUMAR NEBHA

## 6<sup>th</sup> Sem.

8.94

PANDEY PANKIT SUSHIL

8.94

PANCHAL AXAYKUMAR VASANTBHAI

8.7

FRUITWALA NAVEDHUSEN NASIR HUSEN

8.64

VANATH RAJVEERSINH RANJITSINH

## 4<sup>th</sup> Sem.

8.88

VADHER MANISHKUMAR

8.73

PATEL ANKITKUMAR  
MANISHBHAI

## 2<sup>nd</sup> Sem.

9.16

SIDDIQUE SAFTUDDIN RAFTUDDIN

9.06

SINGH AMAN SUNIL KUMAR

8.45

TAMAKUWALA AAKASH PIYUSHKUMAR



# Diesel Engine Performance and Exhaust Emission Analysis using Waste Cooking Biodiesel Fuel .

This study deals with artificial neural network (ANN) modeling of a diesel engine using waste cooking biodiesel fuel to predict the brake power, torque, specific fuel consumption and exhaust emissions of the engine. To acquire data for training and testing the proposed ANN, a two cylinders, four-stroke diesel engine was fuelled with waste vegetable cooking biodiesel and diesel fuel blends and operated at different engine speeds. The properties of biodiesel produced from waste vegetable oil was

measured based on ASTM standards.

The experimental results revealed that blends of waste vegetable oil methyl ester with diesel fuel provide better engine performance and improved emission characteristics.

Using some of the experimental data for training, an ANN model was developed based on standard Back-Propagation algorithm for the engine. Multi layer perception network (MLP) was used for non-linear mapping between the input and output parameters.

# Nostromo Energy replace Li-ion with water

Nostromo Energy is an energy start-up trying to break into the energy storage business. They provide new and innovative, not to mention affordable, storage solutions by replacing Lithium-ion batteries with a much better alternative - water. "While everybody is talking about global warming and Li-ion based energy storage, we have found a way to use water as a highly potent capacitor and solve the most crucial problem of electrical grids: high peak demands, which are wholly subjected to cooling demands, e.g., commercial chillers.

We have developed the cleanest, safest, most cost-effective energy storage system available today and in the foreseeable future.

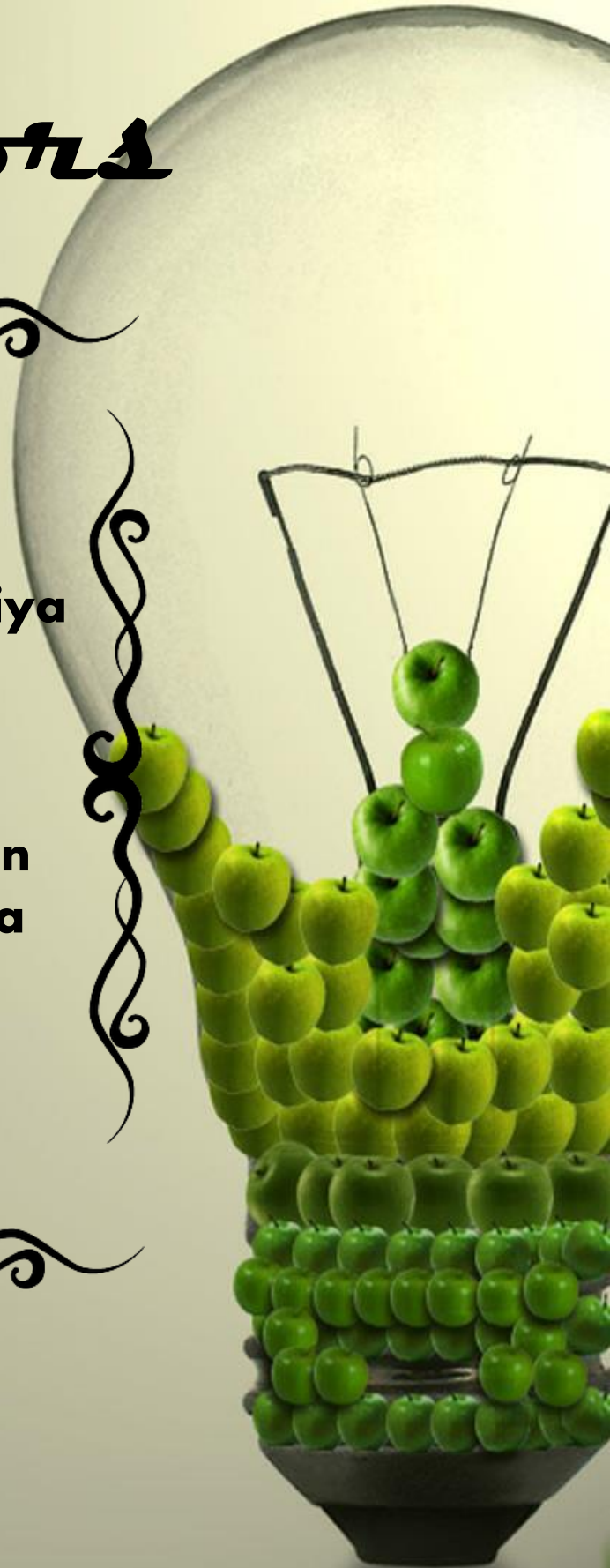
Their Li-ion alternative is called Icebrick. This is a modular thermal cell that is, so they say, 10 times more efficient in its energy storage than other alternatives.

It also comes with a warranty of 15 years



# ***Editors***

**Mr. Shivang Ahir**  
**Mr. Amit Galphade**  
**Mr. Rajveer Vanath**  
**Mr. Tanmay Mandaliya**  
**Mr. Bhagyesh Patel**  
**Mr. Nishant Modi**  
**Mr. Prince Choksi**  
**Mr. Shrishail Chauhan**  
**Mr. Saumya Panpalia**  
**Mr. Barad Nikhil**  
**Mr. Mihir Suman**  
**Mr. Dhyey Shukla**  
**Mr. Aman Singh**



**Save Today, Survive Tomorrow**