



# NEUTRALIZE

A DEPARTMENT E-NEWSLETTER



***Dr. Pina Bhatt***  
***Principal***



***Dr. Rajendra Mohite***  
***HOD***

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**CHIEF EDITOR -**

*Mr.Mohammad Imran*

**ASSISTANT EDITOR -**

*Mr.Nishit S hah*

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*Meet Joshi* (3<sup>rd</sup> Year)

*Ashfaque Pathan* (3<sup>rd</sup> Year)

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*Nimit Gandhi* (3<sup>rd</sup> Year)

*Vanshika Tripathi* (2<sup>nd</sup> Year)

*Rajan Katariya* (2<sup>nd</sup> Year)

*Moksha Shah* (2<sup>nd</sup> Year)

*Jimesh S hah* (2<sup>nd</sup> Year)

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# INDUSTRY VISITS

## *“Adani Visit”*

**Agenda**      **Agenda**      : To correlate the theoretical knowledge gained during the academic session with the current industrial innovations.

**Date**      : 20/10/2019 and 21/10/2019

**No. of faculties involved**      : 02

**No. of Participants**      : 76

**Visit Coordinated by**      : Mr.Vijay Singh and Mr. Nikhil Sharma

**Visit Conducted under**      : Chemical Department Program

**Location**      : Adani Mundra Port

**Session Brief**      :

The technical visit to Adani Mundra port was organized by Chemical Engineering Department on 16th & 17th July, 2019. There were two buses containing total 76 students and 4 faculties. The students from 5th and 3rd semester were a part of the visit. Mundra Port is the largest private port of India located on the north shores of the Gulf of Kutch near Mundra, Kutch district, Gujarat. In 2013-2014, Mundra Port has handled 100 million tonnes of cargo in a year becoming the first Indian port to do so. It also became India's biggest port by cargo handled. Moreover, it is the only port in the country with handling and storage facilities for crude oil, containers, dry bulk, break bulk, automobiles and liquid cargo. The students also visited Adani Wilmar Limited (AWL) which is a joint venture incorporated in January 1999 between Adani Group & Wilmar International Limited – Singapore. Today, AWL owns refineries in 17 strategic locations across India, has 8 crushing units and 18 toll packing units.

## ***“Visit to ISRO”***

**Agenda** : To aware students about different missions of ISRO.

**Date** : 18/10/2019

**No. of faculties involved** : 02

**No. of Participants** : 29

**Session Conducted by** : Mr. Mohammad Imran and Mr. Nikhil Sharma

**Session Conducted under** : Chemical Engineering Program

**Location** : ISRO

**Session Brief** :

The students first visited the auditorium where they were exposed to projects related to the Mars Orbiter Mission of ISRO and also about the Space Station. Then, the students were motivated by giving information about origin and growth of ISRO, various missions of ISRO, Mission Gaganyaan 2022, PSLV (Polar satellite launch vehicle) and GSLV (Geosynchronous satellite launch vehicles). After this session, the students visited the exhibition centre. The exhibition was divided into three sections; first one was showing the model and details about satellites followed by the rocket section. The third section was about the PSLV, GSLV, space suit made by ISRO, space quiz for students and information about parts of rocket.

**If the greenhouse effect is a blanket in which we wrap ourselves to keep warm, nuclear winter kicks the blanket off.**

— Carl Sagan

## EXPERT LECTURES

### *“Expert lecture on Basics of process and plant design”*

**Agenda**      **Agenda**      **: To enrich the knowledge of students about process and plant design.**

**Date**      **: 21/09/2019**

**No. of Participants**      **: 41**

**Session Conducted by**      **: Mr. Santosh Mishra, Process Engineer**

**Session Conducted under**      **: NEEM Tree Club (NTC)**

**Location**      **: Titanium Hall**

**Session Brief**      **:**

The department has organized various expert lectures in order to enhance the technical knowledge and practical exposure of the students. An expert talk on "Basic Process and Plant design" was delivered by Mr. Santosh Mishra (Process Engineer at Zeppelin systems India pvt. Lmt.). He has a vast experience around 17 years in the field of process design and plant operation. He briefed our students about the steps involved and detailed procedure of plant design. The lecture turned to be very interactive and informative.

## ***“Report Making Session”***

**Agenda** : Technical report is a document that describes the progress, process, or results of scientific or technical research. Technical reports may be considered as grey literature because they rarely undergo comprehensive independent peer review before publication.

**Date** : 23/08/2019

**No. of faculties involved** : 01

**No. of Participants** : 43

**Session Conducted by** : Mr. Vijay Singh

**Location** : D-505

**Session Brief** :

This report writing session focused on helping the participants to learn, practice and apply good report writing techniques. Good reports always create a positive impression on readers and help channel inter and intra official correspondence. All organizations appreciate effective and communicative documentation. This necessitates writers, managers and researchers to acquire skills in effective writing through appropriate training.

The step between practical and theoretic science, is the step between the miner and the geologist, the apothecary (person who prepares and sells medicines and drugs.) and the chemist.

— John Ruskin

## Departmental activities

### *Sainik Seva Fund Collection*

**Agenda :** Right from carving out our own country to fighting for it every day at the frontiers, hundreds of martyrs have laid down their lives for us. As a tribute to the fallen heroes of our country, chemical engineering department took this initiative to uplift the families of martyred jawans of the Indian Army.

**Date** : 15/08/2019

**No. of faculties involved** : 03

**No. of Participants** : 15

**Session Conducted by** : Neem Tree Club (NTC)

**Location** : In campus

**Session Brief** : When a soldier sacrifices his life to protect the nation, their families are often left with little means of financial support. Therefore, the department took this campaign to collect the fund for extending a helping hand towards the families of martyred soldiers.



## ***“Teachers Day Celebration”***

|                         |           |  |
|-------------------------|-----------|--|
| Agenda                  | Objective | : To value and acknowledge the contribution of all the teachers to shaping one's life. |
| Date                    |           | : 05/09/2019   |
| No. of Participants     |           | : 69   |
| Session Conducted by    |           | : Mr. Mohammad Imran and Mr. Pithiya Lakhmanbhai                                       |
| Session Conducted under |           | : NEEM Tree Club (NTC)   |
| Location                |           | : D-505  |
| Session Brief           |           | :  |

Teachers' Day is being celebrated across India on 5th September every year to honor Dr. Sarvepalli Radhakrishnan, our first Vice-President, a Teacher and a Philosopher. Teacher's day is a day when we pay tribute to our teachers for their contribution in shaping one's lives. Though it is not a holiday and students are required to report to school/colleges, normal classes are replaced by a day of celebration in college, honoring the teachers for their work and endless contribution to a student's life. The day was celebrated with a great enthusiasm by the students of Chemical Engineering Department, Aditya Silver Oak Institute of Technology (ASOIT). The celebration started at around 10 a.m. The session was attended by the students of 3rd, 5th and 7th semester and all the faculties of the department. The program started with a speech by a student from 7th semester, Janak Patel, consisting of an acknowledgement note to all the beloved faculties. He also delivered a short lecture from a subject "Plant Design and Project Engineering" explaining the concept of depreciation. After that, Ashish Panjawani (7th semester) amused everyone with his magic tricks by playing a game "MATHE MAGIC" with the students. The students from 5th semester, Ashfaque Pathan, Meet Joshi and Nimit Gandhi conducted an attention-grabbing Quiz competition. It was followed by a Debate session on the topic "Modern (Tech-based) teaching is more effective than Conventional (Chalkboard) Teaching" and all students took part in it. The program concluded with an expression of gratitude and appreciation by Kena Dave (3rd semester) towards all the faculties, her fellow seniors, Chemical Engineering Department and the Institute.



# workshops

## *“Workshop on analysis of waste water parameters”*

**Agenda** : To analyze waste water parameters using different equipments.

**Date** : 14/10/2019 and 15/10/2019

**No. of faculties involved** : 02

**No. of Participants** : 30

**Session Conducted by** : Mr.Mohammad Imran and Mr. Pithiya Lakhamanbhai

**Session Conducted under** : NEEM Tree Club (NTC)

**Location** : D-203

**Session Brief** :

A session on analysis of waste water parameters was conducted on 14<sup>th</sup> and 15<sup>th</sup> October, 2019 by Mr. Mohammad Imran and Mr. Pithiya Lakhamanbhai, under Neem Tree Club. Tap water was taken as sample and using different equipments and chemical methods the parameters such as Total Dissolved Solids (TDS), Ammonia, Chemical Oxygen Demand (COD), and BOD etc. were calculated. These calculated values were than compared with the standards of drinking water. From this session, students learned to operate different equipments in laboratory. The session was found to be useful and students enjoyed doing the practical.

# DARE TO ANSWER

## Instructions :

**ANSWERS OF THIS QUIZ WILL BE PUBLISHED IN NEXT EDITION OF NEUTRALIZE.**

1.Synthetic detergents are

- A.sodium salts of fatty acids B.a mixture of sodium carbonate and sodium chloride  
C.calcium salts of hydrochloric acids D.a mixture of sodium salts of aromatic and diphtic sulphonic acids

2-Pure water can be obtained from sea water by the process of

- A.distillation B.evaporation  
C.fractional distillation D.filtration

3The acid that can be used as hypnotic is

- A.barbituric acid B.tartaric acid  
C.butanoic acid D.benzoic acid

4Anemic patients are deficient in

- A.iron B.calcium  
C.magnesium D.iodine

5-Hard water does not lather well with soap because

- A. it contains carbonates of calcium and magnesium B.it is highly coloured  
C.it contains suspended impurities D.it contains sodium chloride

6.Catalytic converters are generally made of

- A.Carbon B.Alkaline metals  
C.Transition metals D.Hydrogen

7.The soft silvery metallic element which ionises easily when heated or exposed to light and is present in atomic clocks is

- A.Cesium B.Calcium  
C.Cerium D.Californium

**8. The mercury and sodium street lamp light up because of**

**A-Atomic absorption                      B-Atomic emission**

**C-Electron absorption      D-Electron emission**

**9. The green color seen in fire work is due to the chloride salt of**

**A-Strontium B-Barium**

**C-Sodium                      D-Calcium**

**10. Most commonly used bleaching agent is**

**A-Alcohol      B-Chlorine**

**C-Carbon dioxide      D-Sodium chloride**

**11. The gas that is used in manufacture of vanaspati ghee is**

**A-Oxygen                      B-Hydrogen**

**C-Nitrogen D-Carbon dioxide**

**12. Which of the following could be used as fuel in propellant or rockets?**

**A-Liquid hydrogen + Liquid nitrogen B-Liquid hydrogen + Liquid oxygen**

**C-Liquid nitrogen + Liquid oxygen      D-Liquid oxygen + Liquid Argon**

**13. The refrigerant FREON is**

**A-Calcium Tetra Fluoride B-Difluoro Dichloro Methane**

**C-Hydrofluosilicic Acid      D-Florspar and felspar**

**14. Hard steel contains**

**A-2 to 5 per cent carbon      B-0.5 to 1.5 per cent carbon**

**C-0.1 to 0.4 per cent carbon      D-0.01 to 0.04 per cent carbon**

**15. When an helium atom loses an electron it becomes**

**A-a proton                      B-an alpha particle**

**C-a positive helium ion      D-a negative helium ion**

## QUESTION QUEST

If you have any Engineering related curious questions, you can mail us on the mentioned Mail-ID. We will shortlist most interesting questions and answer them in the next edition of “NEUTRALIZE”.

Mail-ID to send your questions

[neutralizenewsletter@gmail.com](mailto:neutralizenewsletter@gmail.com)

Bakelite is the first plastic discovered ever, which doesn't melt's when put in high temperature.