

# EARTHY WORTHY

13<sup>th</sup> issue

APRIL-JUNE 2020



***DEPARTMENT OF ENVIRONMENTAL  
SCIENCE & TECHNOLOGY***

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**Pratibha Gautam**  
**Head-DEST**



**Bhasha Mehta**  
**Asst. Prof, DEST**

# EDITORIAL BOARD



**Mr. Kale Prasad**  
**SEM - IV**



**Ms. Vanshika Rana**  
**SEM - VI**



**Ms. Bansari Shah**  
**SEM - VIII**

## Vision

**“To become globally recognized as a pioneer in the field of Environmental Science and Technology by providing world-class education and training to students to deal with global environmental challenges by research based sustainable solutions.”**

## Mission

- To prepare an innovative curriculum with a holistic approach of continual improvement in order to address environmental challenges.**
- To Impart sound scientific and technical knowledge in environmental management.**
- To Orient students to analytical techniques by offering state of art laboratories and innovative experiments.**
- To Practice and promote multi-disciplinary research leading to sustainable development.**
- To establish relationship among Industry-Academia-Research institution and undertake collaborative research projects to deliver scholarly output.**

## Program Educational Objectives

- To excel our students in the field of environmental science and technology in order to provide economical, safe, and sustainable solutions of complex engineering problems pertaining to various environmental challenges.
- To educate our students with such high standards of teaching and learning coupled with rich hands on experience and project based experience that they are recognized globally for their sound technical capabilities and professional ethics.
- To prepare our students to demonstrate excellent abilities in interdisciplinary fields of environmental management such as waste water treatment, air pollution control and solid waste management.
- To develop our students' analytical skills and their ability to use modern engineering tools to critically evaluate and amalgamate various state of the art techniques of science and engineering to cater the need of sustainable development.
- To ensure our students to bring synchronization between industry and institute, and also to develop and promote industry oriented research at institute.

# *DEPARTMENTAL*



# EXPERT LECTURE



Sr. No.	Semester	Name of Expert	Designation of Expert (With name of industry)	Date
1	6 & 8	Dr. Atul Vaidya	Chief Scientist & Head, Solid and Hazardous Waste Management Department (NEERI, Nagpur)	11/4/2020
2	6 & 8	Mr. Fakhari Kanpurwala	Technical Head (GICEA)	27/4/2020
3	6 & 8	Mr. Alok Kumar Mehar	Junior Scientific Assistant (CPCB)	8/5/2020
4	6 & 8	Dr. Biswajit Paul	Associate Professor (IIT, Dhanbad)	11/5/2020
5	4, 6 & 8	Dr. Ajay Chandak	Certified Energy Auditor & Renewable Energy Consultant PRINCE, Suman Foundation, DHULE	14/5/2020
6	4, 6 & 8	Mr. Ketan Lakhtaria	Assistant Professor (GPERI)	25/5/2020



# GLANCE OF EXPERT LECTURES

**ICP-MS**

- Mass spectrometry method: detects ions distinguished by their mass-to-charge ratio ( $m/z$  value)
- Based on ions moving under influence of electrical or magnetic field under vacuum, to avoid ions colliding with other particles.
- Argon plasma used for atomization and excitation of elements

The slide also features a diagram of the ICP-MS process showing the flow from sample introduction through nebulization, spray chamber, interface region, and ion optics to the detector.

A screenshot of a Zoom meeting showing a participant's video feed. The participant is a man with glasses and a dark shirt. The Zoom interface, including the participant list and meeting controls, is visible around the video.

**Electric Induction Stove**

The slide features a photograph of a woman in a kitchen using an electric induction stove. The PRINCE logo is visible at the bottom left.

**Rooftop 5 kW Solar Grid Tied System**

The slide features a photograph of a person on a roof installing solar panels. The PRINCE logo is visible at the bottom left.

**BIO MEDICAL WASTE MANAGEMENT RULES, 2016**

In exercise of the powers conferred by section 6, 8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), and in supersession of the Bio-Medical Waste (Management and Handling) Rules, 1986, the Central Government hereby makes the following rules, namely:-

- Short title and commencement - (1) these rules may be called the Bio-Medical Waste Management Rules, 2016.
- They shall come into force on the date of their publication in the Official Gazette.
- Application -
  - These rules shall apply to all persons who generate, collect, receive, store, transport, treat, dispose, or handle bio medical waste in any form including:
    - hospitals,
    - nursing homes,
    - Clinics & Dispensaries,
    - Veterinary institutions & Animal houses,
    - Pathological laboratories,
    - Blood banks, Ayush Hospitals
    - Clinical Research companies,
    - Medical Research or Educational institutions,
    - Health camps, medical or surgical camps, vaccination camps, blood donation camps,
    - First aid rooms of Schools,
    - Forensic laboratories and Research labs.

**MSW-Indian Scenario**

**Generation**

- Around 65 million ton per year (2019)
- Substantial increase in last decade (50%)
- Class I cities contribute more than 70%
- Per capita generation 0.3-0.5 kg per day

**Composition**

- High moisture content
- Low CV
- 40-50% biodegradable
- Less recyclables
- High Inerts

The slide also includes a pie chart showing the composition of MSW and a photograph of a waste management site.

# **ONLINE PROJECT REVIEW**

**DATE: 9/4/2020**

**REVIEWED BY: All faculties of DEST**

**DELIVERED BY: All students of different groups of 8<sup>th</sup> semester of department of environmental science and technology**

**COORDINATED BY:**

**Mr. Manoj kumar under the guidance of HOD,  
Ms. Pratibha Gautam**

# GLIMPSE OF PROJECT REVIEW



**Shroff S.R. Rotary Institute of Chemical Technology**  
 UPL  
 Principal Sponsor & Sponsor - CIL LTD., Shroff Faculty  
 Managed By Anandhwar Rotary Education Society  
 Approved by ACETL, New Delhi, Govt. of Gujarat & GTU Affiliated  
 Rotary

**PROJECT REVIEW**  
**ZERO VALENT IONS**  
 B.E. 4<sup>th</sup> yr, Semester- 8  
 Department of Environmental Science and Technology

Submitted by:  
 Parmar Dhara (160990135026)  
 Patel Saloni (160990135033)

Project Guide:  
 Dr. Snehal Lokhandwala

**Project Review - Presentation Slides**

- > Project Topic : Conversion of used tender coconut shells into fuel
- > Project Team ID : 62516
- > Project Group :
  - Abhinavish Oshil (160990135011)
  - Charvi Paruchami (160990135023)
  - Jalmit Patel (160990135029)
  - Tarax Patel (160990135034)
- > Project Guide : Asst.Prof. Bhanka Mehta

# *ONLINE ONE TO ONE MEETING FOR 4<sup>TH</sup> SEM*

**DATE : 17th May 2020.**

Department of Environmental Science and Technology had organized Online one to one meeting for 4th semester students with honorable Vice Chairman Mr. Ashok Panjwani.

## **Points discussed:**

Online lectures, attendance of online lectures, online PLIs, Mid semester exam results, MCQ based test, extra evening classes for special students, classes for backlog students, online REVA FEST 2020, online courses, etc.

## **Attendance:**

Honorable Vice Chairman Mr. Ashok Panjwani Sir, Principal Dr. Shrikant. J. Wagh, Vice Principal Dr. Snehal Lokhandwala, Ms. Pratibha Gautam (HoD, EST), Dr. Purvi Naik, Ms. Bhasha Mehta and students of 4th sem attended one to one meeting.

# GLIMPSE OF ONE TO ONE MEETING

Enrollment No: 180990135011  
 Name: Manan Kumar  
 Home Town: Ankleshwar  
 Staying at Hostel: no  
 Coming by College Bus: yes  
 12<sup>th</sup> Standard(% PCM): 65%  
 CPI: 8.16

**Feedback of online REVAFEST 2020:**  
 It was nice ...

**No. of Online Course Completed during lockdown:** 2  
**Name of Course:** 1. sustainable diet  
 2. Covid-19 awareness and management

SPI in Semester-I: 8.11  
 Backlog in Semester-I: 0  
 Backlog Subject(Sem I): -  
 Commitment in Semester-II: 8  
 SPI in Semester-II: 8.01  
 Backlog in Semester-II: 0  
 Backlog Subject(Sem-II): -

Current Semester Attendance: 95%  
 Commitment in Semester IV: 9  
 Midsemester marks (out of 30):  
 FOS: 25  
 WWT: 29  
 EM-II: 24  
 ERM: 28  
 OCTP: 21  
 RMSE marks (out of 30)(If Applicable): NA  
 PLI taken if any: 1 (ETC)

Any issue with online class: no

05:15

Enrollment No: 180990135009  
 Name: Prasad Kale  
 Home Town: Ankleshwar  
 Staying at Hostel: no  
 Coming by College Bus: yes  
 12<sup>th</sup> Standard(% PCM): 80%  
 CPI: 9.05

**FEEDBACK OF ONLINE REVAFEST 2020:**  
 It was well organized and coordinated

**No. of Online Course Completed during lockdown:** 12  
**Name of Courses:** Prasad Kale  
 1 E-Course on Intro. to climatechange  
 2 Sustainable Diet  
 3 Human Health and Climate Change  
 4 Children and Climate Change  
 5 Cities and Climate Change  
 6 Intro. To Sustainable Finance  
 7 Climate Change International Legal Regime  
 8 Intro. To Human Rights and Environment  
 9 E-Course on Climate Change learning to action  
 10 Course on Gender and Environment  
 11 Integrating Climate Risk info into NAP's  
 12 COVID-19 Combatant

Current Semester Attendance: 91%  
 Commitment in Semester IV: 10  
 Midsemester marks (out of 30):  
 FOS: 29(RMSE due to Hackathon)  
 WWT: 30  
 EM-II: 30  
 ERM: 23(RMSE due to Hackathon)  
 OCTP: 28  
 EPC: 27  
 RMSE marks (out of 30)(If Applicable): NA  
 PLI taken if any: 2  
 AGHS Mentor: Kumar

Any issue with online class: network issue

05:12

Ashok Parekh

Enrollment No: 180990135018  
 Name: Kay Patel  
 Home Town: Ankleshwar  
 Staying at Hostel: no  
 Coming by College Bus: yes  
 12<sup>th</sup> Standard(% PCM): 55%  
 CPI: 8.87

**Feedback of online REVAFEST 2020:**  
 Excellent

**No. of Online Course Completed during lockdown:** 1  
**Name of Course:** ...

Current Semester Attendance: 95%  
 Commitment in Semester IV: 9  
 Midsemester marks (out of 30):  
 FOS: 18  
 WWT: 14  
 EM-II: 20  
 ERM: 12  
 OCTP: 22  
 RMSE marks (out of 30)(If Applicable): NA  
 PLI taken if any: 1

05:17

We share because we care

# SUMMER 2020 COMMENCEMENT



# ORIENTATION SEM 3

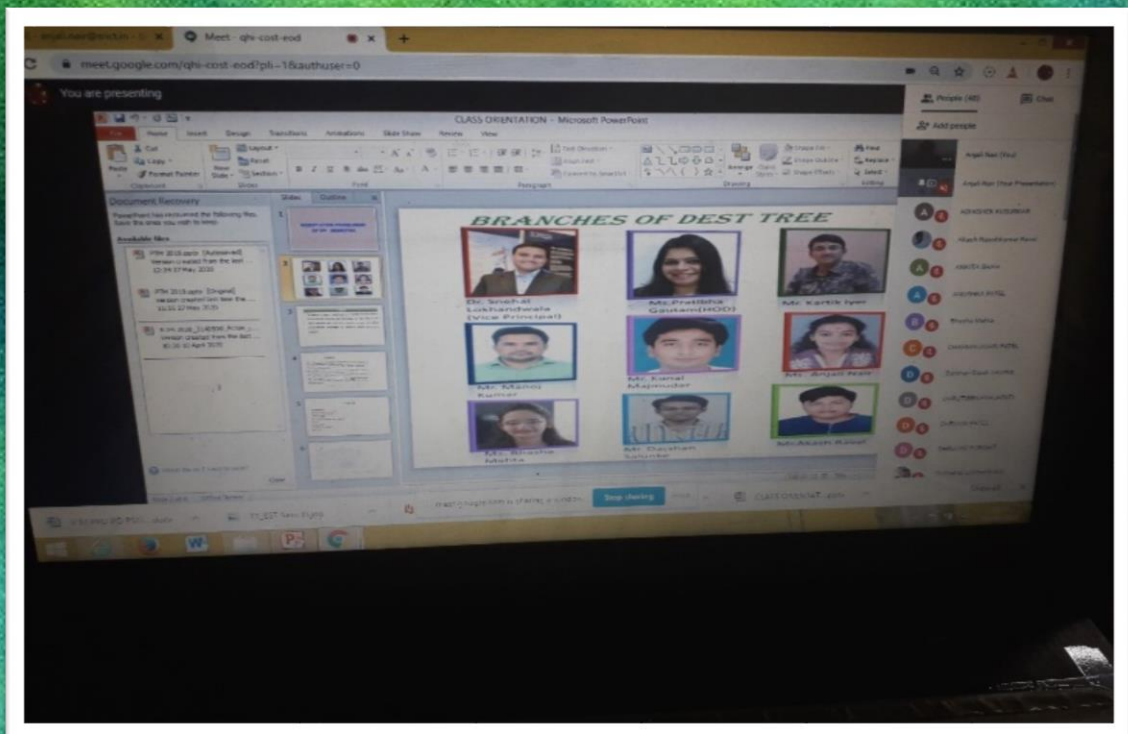
**DATE: 18/6/2020**

## **POINTS DISCUSSED:**

**Online classes, Maintaining discipline  
100% attendance, Internship, NBA Awareness,  
Awareness about vision and mission of the department**

## **GUIDED BY:**

**Ms. Pratibha Gautam (HOD, DEST)  
Dr. Snehal Lokhandwala (Vice principal )**



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# ORIENTATION SEM 5

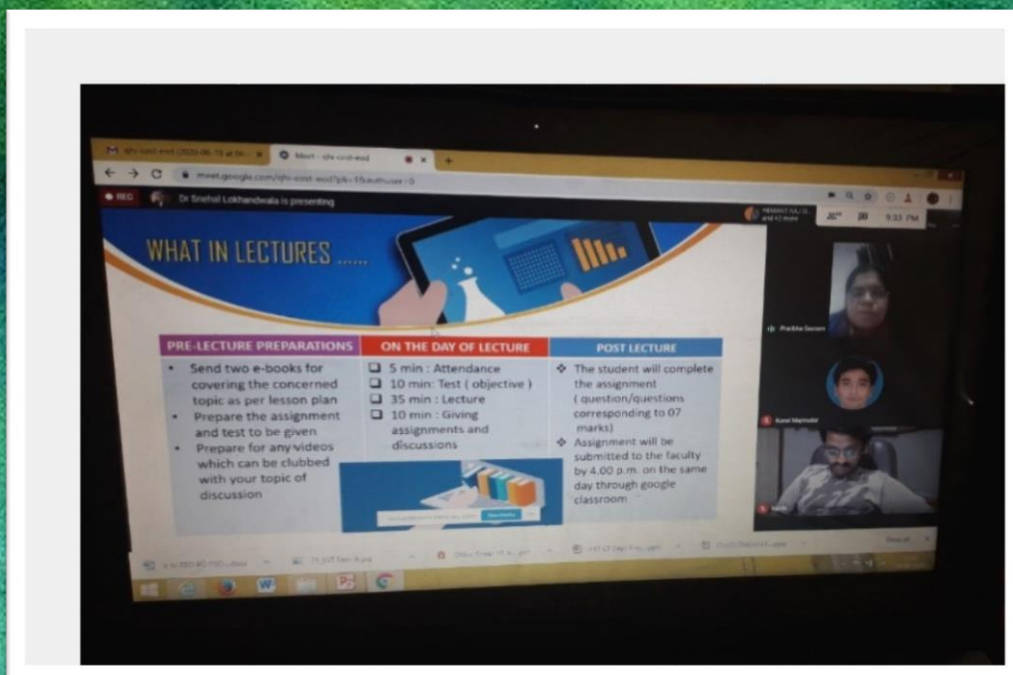
**DATE: 19/6/2020**

## **POINTS DISCUSSED:**

**Online classes, Maintaining discipline  
100% attendance, Internship, NBA Awareness**

## **GUIDED BY:**

**Ms. Pratibha Gautam (HOD, DEST)  
Dr. Snehal Lokhandwala (Vice principal )**



# ORIENTATION SEM 7

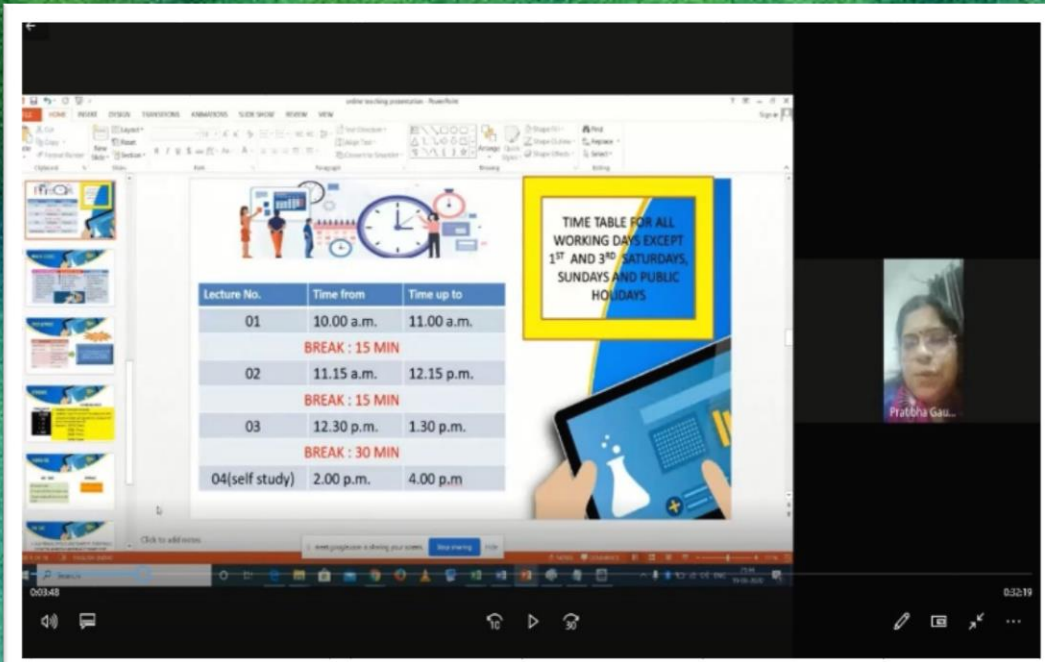
**DATE: 18/6/2020**

## **POINTS DISCUSSED:**

**NBA Awareness, online classes,  
maintaining discipline, 100% attendance**

## **GUIDED BY:**

**Ms. Pratibha Gautam (HOD, DEST)  
Dr. Snehal Lokhandwala (Vice principal )**



TIME TABLE FOR ALL WORKING DAYS EXCEPT 1<sup>ST</sup> AND 3<sup>RD</sup> SATURDAYS, SUNDAYS AND PUBLIC HOLIDAYS

Lecture No.	Time from	Time up to
01	10.00 a.m.	11.00 a.m.
BREAK : 15 MIN		
02	11.15 a.m.	12.15 p.m.
BREAK : 15 MIN		
03	12.30 p.m.	1.30 p.m.
BREAK : 30 MIN		
04(self study)	2.00 p.m.	4.00 p.m.



OTHER

ACTIVITIES

# **MOTIVATIONAL SESSION**

## **PARTICIPANTS:**

Students from Semester 6 and semester 8

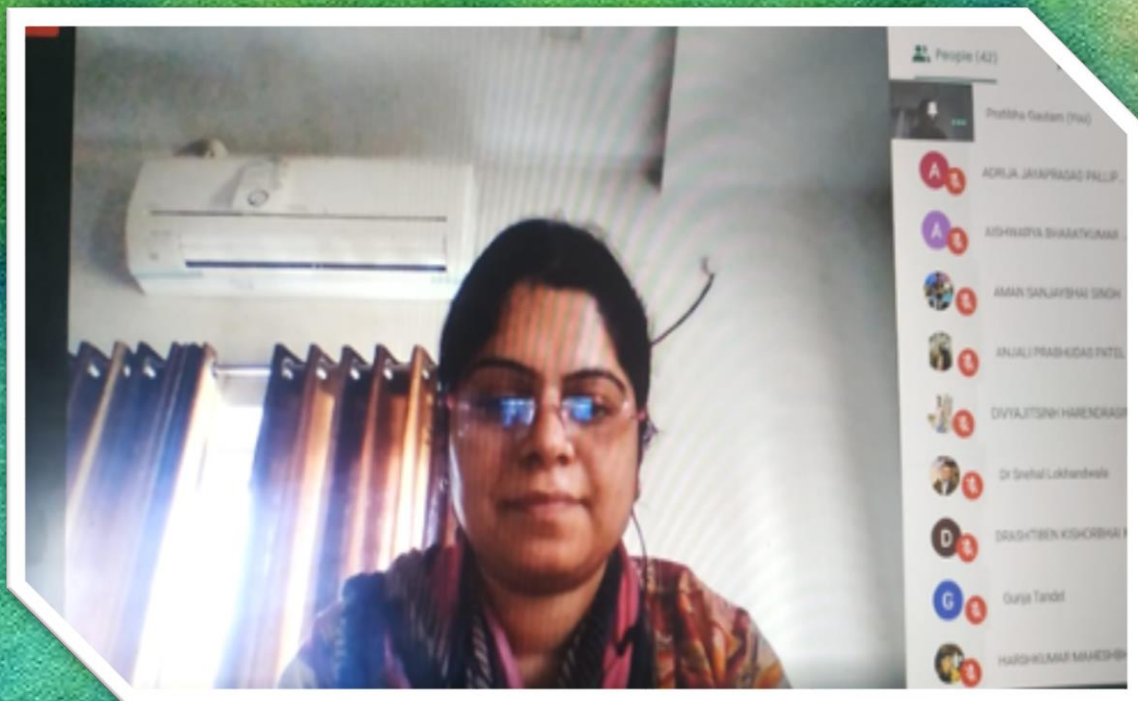
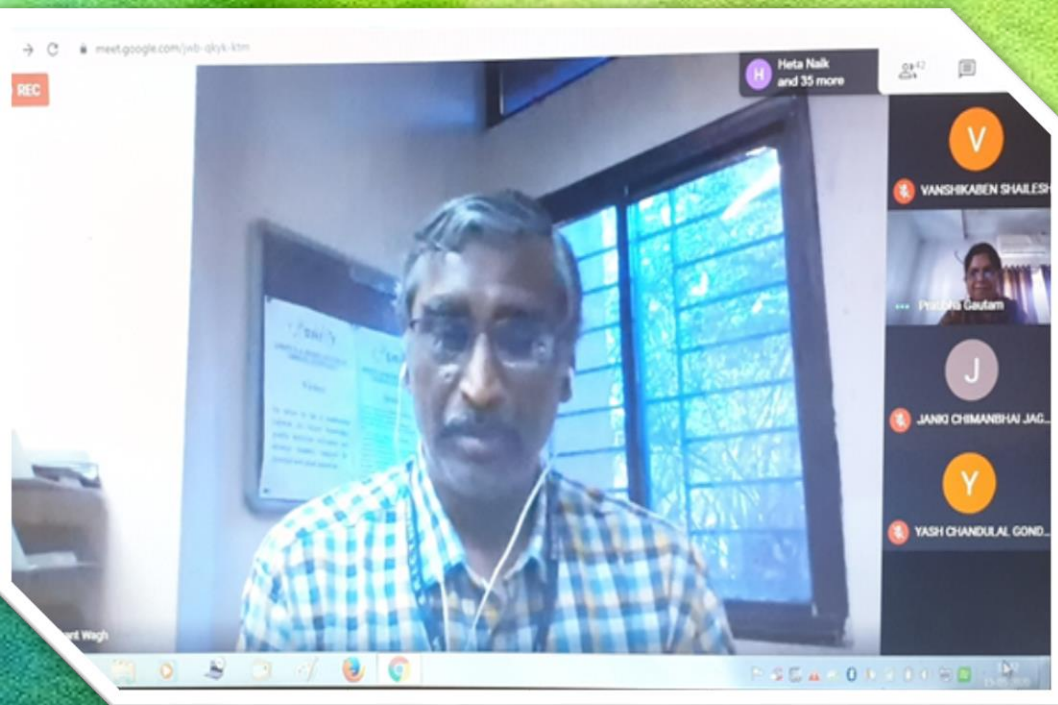
## **OBJECTIVE:**

To utilize the quarantine period and explore the newer technologies for the betterment of environment and society

## **DELIVERED BY:**

Shrikant J Wagh, Principal – SRICT,  
Snehal Lokhandwala, Vice Principal – SRICT  
Pratibha Gautam, HOD - DEST

# GLIMPSE OF MOTIVATIONAL SESSION



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# **CELEBRATION OF WORLD ENVIRONMENT DAY**

## **WEBINAR TO PROMOTE THE ENVIRONMENTAL AWARENESS**

### **Participants:**

**650 Students from various states OF INDIA**

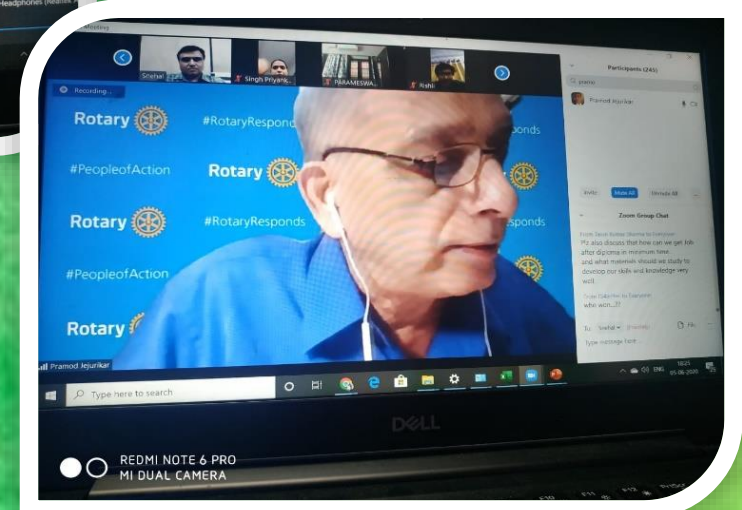
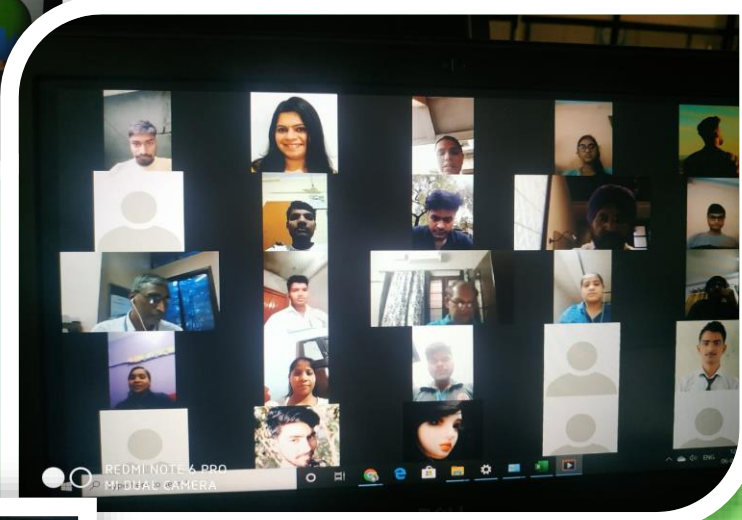
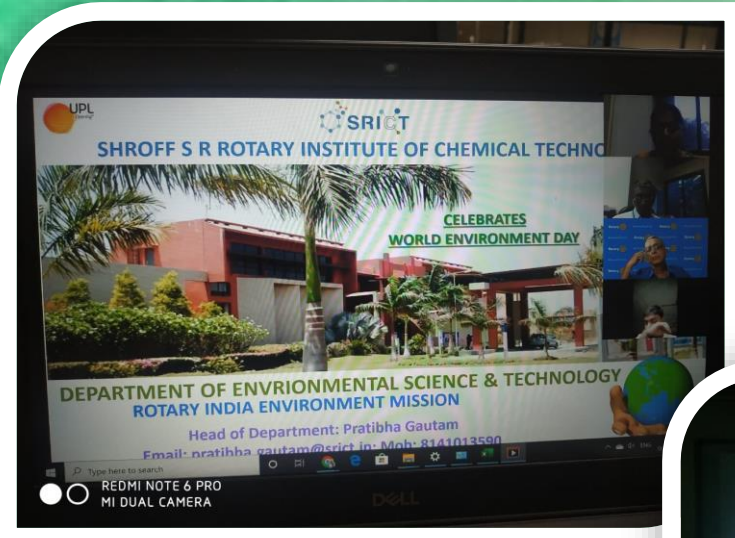
### **Competitions:**

**Quiz, Essay writing and PPT making  
competitions**

### **Topics:**

**Environmental awareness, Biodiversity, etc.**

# GLANCE OF THE WEBINAR



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# WEBINAR ON “TECHNO-ECONOMIC FEASIBILITY OF ZERO LIQUID DISCHARGE PROJECTS”

## **Speaker:**

Dr. Mrityunjay Choubey

Global Vice President

(Environment & Sustainability) UPL Limited

## **Date of webinar:**

31st May 2020

## **Participants:**

1500+ delegates from all over the world.

# GLIMPSE OF WEBINAR

**Zero Liquid Discharge**

- Zero Liquid Discharge (ZLD) is an approach to water treatment where contaminants are removed as solid waste.
- ZLD is good for those areas where suitable treated wastewater discharge and water scarcity is extreme.

**How to achieve ZLD**

Raw wastewater → Pretreatment (6-8%) → Pretreated wastewater → Membranes → Brine → Crystallizer (45-75%)

Participants: 379

Device: REDMI NOTE 6 PRO MI DUAL CAMERA

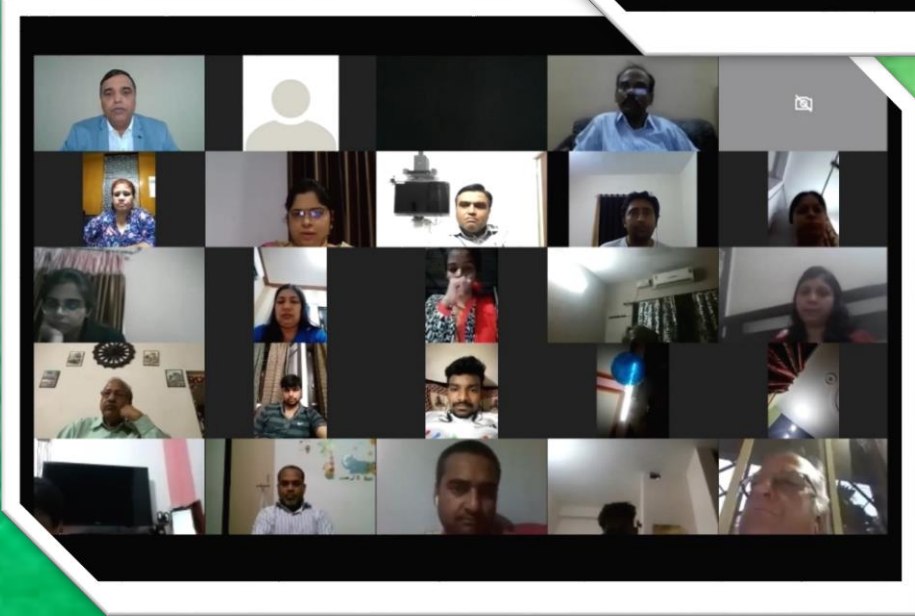
**Feasibility Study For 2.5 MLD ZLD Plant**

Category	ETP to real Discharge norms	ETP to real ZLD norms
Power Consumption (kWh/MLD)	7745	10760
Solid Waste Generation (Tons/MLD)	22	61
Capital Cost (INR in Crores)	48	102
CO2 Emission (Tons/MLD)	8.5	28.2
Chemical Consumption (Tons/MLD)	1150	2818
Operational Cost (INR in Lakhs)	500	1600

**Environmental Feasibility of ZLD Plant** (Power, CO2, Solid Waste)

**Economic Feasibility of ZLD Plant** (Capital, Operational Cost)

Zero Liquid Discharge is no longer an environment friendly technique specially in coastal areas.



# WEBINAR ON "Pollution Prevention for Sustainable Industrial Development"

## **Speaker:**

Dr. Bharat Jain

Member Secretary of Gujarat Cleaner Production Centre(GCPC).

## **Date of webinar:**

4<sup>th</sup> July 2020

## **Participants:**

More than 350 from all over India





# FACULTY ACHIEVEMENTS



## Indirect impact of COVID-19 on environment: A brief study in Indian context

Snehal Lokhandwala\*, Pratibha Gautam

Department of Environmental Science & Technology, Shree S.R. Rotary Institute of Chemical Technology, Ankleshwar, Gujarat, 393135, India



### ARTICLE INFO

**Keywords**  
Covid 19  
Pandemic situation  
Lockdown  
Air quality index  
Central pollution control board

### ABSTRACT

Worldwide spread of COVID-19 in a quite short time has brought a dramatic decrease in industrial activities, road traffic and tourism. Restricted human interaction with nature during this crisis time has appeared as a blessing for nature and environment. Reports from all over the world are indicating that after the outbreak of COVID-19, environmental conditions including air quality and water quality in rivers are improving and wildlife is blooming. India has always been a hub of pollution with huge population, heavy traffics and polluting industries leading to high air quality index (AQI) values in all major cities. But after declaration of lockdown due to COVID-19, quality of air has started to improve and all other environmental parameters such as water quality in rivers have started giving a positive sign towards restoring. This paper provides evidence-based insight into improvement of air quality and environment during pre and post lockdown of this pandemic situation. An attempt has been made to visualize the improvement in the air quality using tools like satellite images of Indian atmosphere, results of onsite real-time monitoring at specific locations (Ghaziabad-highest polluting city of India) and Air quality index (AQI) calculated by central pollution control board of India.

### 1. Introduction

Coronaviruses (CoVs) are a group of viruses which affects human beings through zoonotic transmission. This is the third time in past two decades that novel virus has created pandemic condition, after Severe Acute Respiratory Syndrome (SARS) in 2003 and Middle East Respiratory syndrome corona virus (MERS-CoV) in 2012 (Ramdan and Shaib, 2019; Zhong et al., 2020). Pertaining to the Corona virus (2019), it was on December 31, 2019 wherein first case was reported to WHO Country Office in Wuhan, China with symptoms of unexplained low respiratory infections. This was classified as "pneumonia of unknown etiology" as the cause of infection was not known. On January 12, 2020, WHO found that Corona virus was the reason of this infection in Wuhan and later on 11th February, WHO Director-General announced this novel CoV as 'COVID-19' which is an acronym of 'Corona virus disease 2019' (Casella et al., 2020). Covid-19 contain a single-stranded RNA as nuclei material and are 65 nm - 125 nm in diameter (Shereen et al., 2020). The major causes of concern for Covid-19 includes its global scale transmission, repeated emergence, significant number of deaths, infection and mortality to care providers and multiplicative effect in vulnerable or susceptible groups.

Covid-19 was declared pandemic disease by Director General-WHO on 11th March, he also briefed regarding the 13-fold increase in positive cases in China and 114 countries suffering from 1, 18,000 positive

cases and 4291 deaths till date (World Health Organization, 2020). In India the first confirmed positive case was reported on 30th January in a student from Thrissur district of Kerala who had returned home for a vacation from Wuhan University in China (India Today, 2020a) followed by two other cases on February 2 and 3 again in Kerala having the same history. As on 14th April, Ministry of Health & Family Welfare (MOHFW) reported 10,815 positive cases and 358 deaths covering 32 states in India. Fig. 1 shows the spread of COVID-19 from January 30, 2020 to April 14, 2020. It is evident from the figure that spread of corona virus became rapid after 15 March and started taking a horrible shape in entire country.

Presently in comparison to the top six affected countries viz USA, Italy, Spain, China, Germany and Iran, we in India have lesser capacity to serve patients. With a population of 1.2 billion, India has only 118 Government approved testing laboratories, 1.1363 beds per thousand patients (China has 4.2) and more than one million tests done. On the contrary, India has the highest recovery rate of 41.39% as compared to Italy (16.91%) and USA (3.17%) which is the direct effect of lockdown. Although, the researchers round the globe are rigorously working to find the cure of the infection caused by this deadly virus but unfortunately, till date no definite cure or vaccine has got developed. The only way to control the spread of this virus at this moment is suggested to be "social distancing", which is being practiced by many countries at this crisis time and has led to reduction GHG emissions in air

\* Corresponding author.

E-mail address: [snehal.lokhandwala@sriict.in](mailto:snehal.lokhandwala@sriict.in) (S. Lokhandwala).

<https://doi.org/10.1016/j.envres.2020.109807>

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**STUDENT  
GROWTH &  
ACHIEVEMENT**

VirajSinh Prankda, student of 5<sup>th</sup> semester successfully passed the exam of Diet and Nutrition Coach Course which was conducted online on 28<sup>th</sup> June after completion of training in the May month.

Now he is CPD Certified - Diet & Nutrition Coach - Beginner to Advanced.

CERTIFICATE OF  
**COMPLETION**

*this certificate is hereby awarded to*

**VIRAJSINH PRANKADA**

*in recognition of successfully completing the*

**DIET & NUTRITION COACH**

*course in accordance with CPD standards*



**ACCREDITED:  
ONLINE COURSE  
#1000658  
10 CPD CREDITS**



**ACCREDITED  
PROVIDER  
#776938**



# DETAILS OF ONLINE COURSES DONE BY STUDENTS DURING LOCKDOWN

## Course Name

- 1.learn introductory course on climate change
2. Climate change international legal regime
3. Introductory course to the international legal framework on ozone depletion
- 4.Corona commando
5. Covid - 19 - Awareness and Management
6. Introduction to environmental governance
- 7.Introductory course to the Basel convention on the control of transboundary movement of hazardous waste and theri disposal and regional instruments on hazardous waste
8. Introduction to Sustainable Finance
9. Introduction to Human Rights and Environment.
10. Specialized module on cities and climate change
- 11.Sustainable Diet
12. Gender and Environment.

Semester	No of certificate course
4	104
6	138
8	12

# KNOW YOUR FACULTY



**MR. MANOJ  
KUMAR**

**Designation :**

Asst. Professor

**Qualification:**

B.Tech & M.Tech

(Environmental Engineering)

**Experience:** 08 years

NABET approved functional  
area expert

64GB

28°F/20

11:45 AM

MON 11/26/12

MONDAY  
November 26, 2012

Daily Informational Digest

# NEWS

264

Today  
28°F/20

BUSINESS • POLITICS • ECONOMICS • SCIENCE • ENGINEERING • MEDICINE • HEALTHY • ECOLOGY • TECHNOLOGY

MARKETS

TOP NEWS

TECHNOLOGY

## FINANCIAL REPORTING NEWS

Unsettling indicators in earnings forecasts as difficult to parse, may lead to more volatility in stock prices when it comes to time to make decisions to sell or buy. It may be time to let us help you with it. Please contact us for more information.



Unsettling indicators in earnings forecasts as difficult to parse, may lead to more volatility in stock prices when it comes to time to make decisions to sell or buy. It may be time to let us help you with it. Please contact us for more information.

## GLOBAL ECOLOGY: IT'S NOT TIME TO FALL BACK



## MOVE YOUR BUSINESS TO CLOUD

A successful business requires a solid foundation. It's not just about the product or service you offer, but also about the infrastructure that supports it. Moving your business to the cloud can provide a solid foundation for your success. Let us help you with it. Please contact us for more information.

# **AIR POLLUTION LINKED WITH HIGHER COVID-19 DEATH RATE**

**(Source: The Economic Times)**

**(Date: Apr 20,2020)**



# **GLOBAL CO<sub>2</sub> EMISSIONS TO DROP 4-7% IN 2020, BUT WILL IT MATTER ?**

**(Source: The Economic Times)**

**(Date: May 20,2020)**



# NO LET-UP IN GLOBAL RAINFOREST LOSS AS CORONAVIRUS BRINGS NEW DANGER

(Source: The Economic Times)

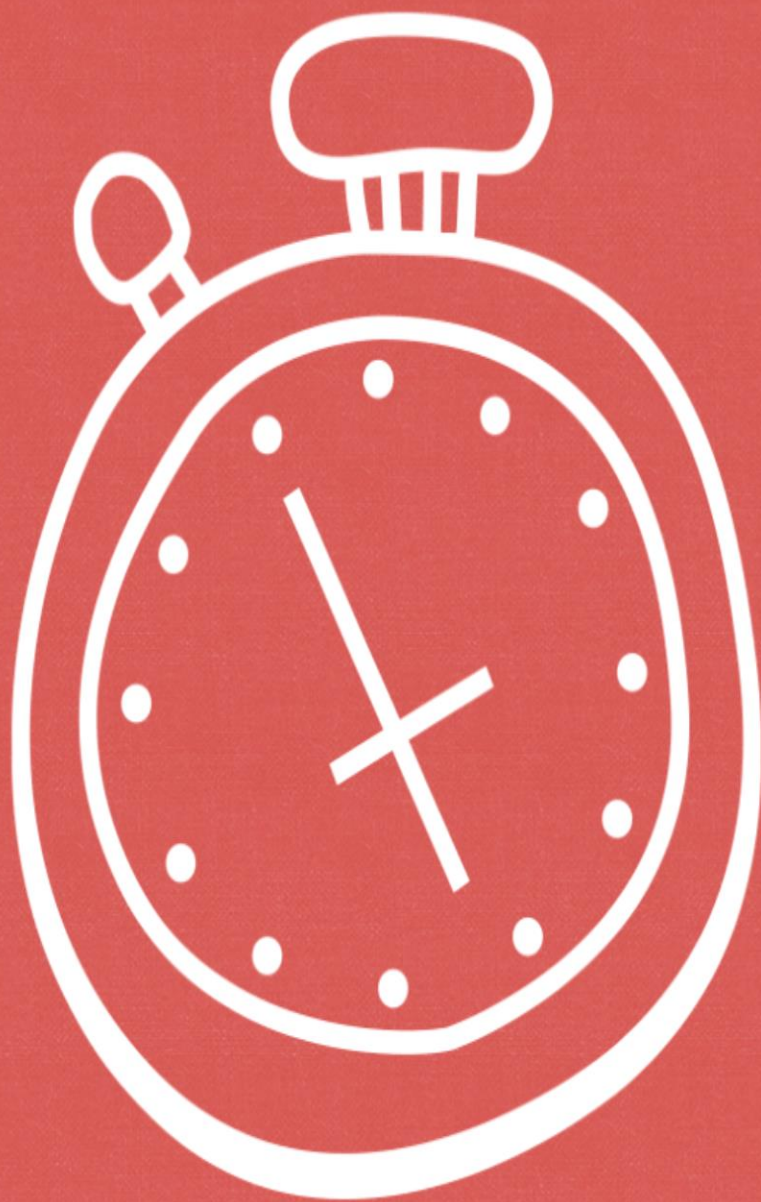


## PLASTIC ' HAS ENTERED ' ANTARTIC TERRESTRIAL FOOD CHAIN

(Source: The Economic Times)

(Date: June 24,2020)





BirthdayAlarm

# **FACULTY BIRTHDATES**

***BHASHA MEHTA***

# **STUDENT BIRTHDATES**

***DESAI SUDEEP JAYDEEPSINH***

***GARG SHRADDHA VIVEK***

***MAISURIYA DIVYABEN BIPINBHAI***

***MODI MONIL***

***PARMAR DHRUMI HITENDRASINH***

***PATEL TASVIRKUMAR PRAMODBHAI***

***GONDALIYA YASH CHANDULAL***

***KHENI DRASHTIBEN KISHORBHAI***

***PARMAR RIYAKUMARI RAJENDRAKUMAR***

***PATEL ANJALI PRABHUDAS***

***PATEL PARTHKUMAR VINESHKUMAR***

***PATEL RUTVIK BHARATBHAI***

***PRAJAPATI HARSHKUMAR MAHESHBHAI***

***RANA PANKTI NITESHKUMAR***

***BHAVSAR NIDHI DIPAKBHAI***

***CHOUDHARY JAGRUTI SANJAY***

***PANDEY ANKITKUMAR KRIPASHANKAR***

***PURANI DHRUVIL SANDIPKUMAR***

***SHARMA RIYA POONAMCHAND***

***YADAV ASHISH RAJESH***

***PAREKH SHIVAM SUBHASBHAI***

***PATEL HETVIBEN***

***SUVAGIYA NIRALI GIRISHBHAI***



THANK YOU