



EARTHY WORTHY



17th Issue

April-June 2021

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

“ INDEX

Sr. No.

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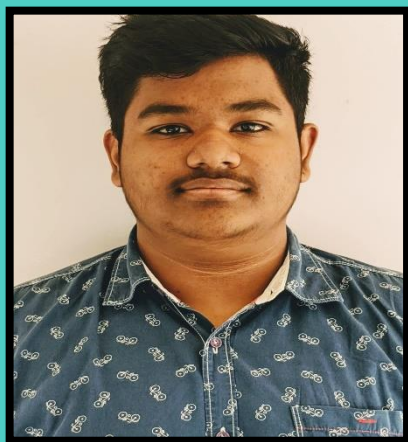
EDITORIAL BOARD



Pratibha Gautam
Head-DEST



Amishi Popat
Asst. Prof, DEST



Mr. Purusattam Das
SEM - IV



Mr. Kale Prasad
SEM - VI



Ms. Vanshika Rana
SEM - VIII

Department of Environmental Science & Technology

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.

We Share because we care

Department of Environmental Science & Technology

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.

A person with short, dark hair is seen from behind, looking at a wall covered in various design sketches, photos, and diagrams. The person is wearing a light-colored sweater with dark horizontal stripes. The wall is filled with creative work, including hand-drawn diagrams, photographs of people, and architectural drawings. A dark blue arrow graphic points to the right in the top left corner, and a yellow arrow graphic points to the right in the bottom right corner.

DEPARTMENTAL ACTIVITIES

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Expert Lecture

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DETAILS OF THE EXPERT TALK

Sr. No.	Semester	Designation of Expert (With name of industry)	Date
1	8	Senior Executive, Aarti Industries	02/04/2021
2	2 (PG-EM)	Professor of Civil Engg., IIT Kanpur	08/06/2021
3	7	Project Executive, Indian Institute of Technology Kanpur	10/06/2021

Glimpse of the talk

Variation in $PM_{2.5}$ Composition in Delhi

(a) Delhi $PM_{2.5}$ Composition

SOA, EC, OC, K⁺, Metals higher during CRB

SIA (NH_4 , NO_3 and SO_4) higher during post-CRB

(b) Delhi Elements

(c) CRB, Delhi, 2013

(d) Post-CRB, Delhi, 2013

7:30 PM | EXPERT LECTURE ON AIR QUALITY MODELLING FO...

Expert Talk by Mr. Mukesh Sharma from IIT Kanpur on 08/06/2021

Processes for chemical treatment

Individual processes or sets of processes are treated by "modules" or "schemes"

Gas phase chemistry

Aerosol Chemistry

Aerosol nucleation

Emissions

Dry Deposition

Cloud microphysics, wet deposition

Aqueous phase chemistry

Radiative transfer

7:24 PM | EXPERT LECTURE ON AIR QUALITY MODELLING FO...

Expert Talk by Mr. Pavan Nagar from IIT Kanpur on 10/06/2021



VIRTUAL

INDUSTRIAL

VISIT





A Virtual Industrial visit to

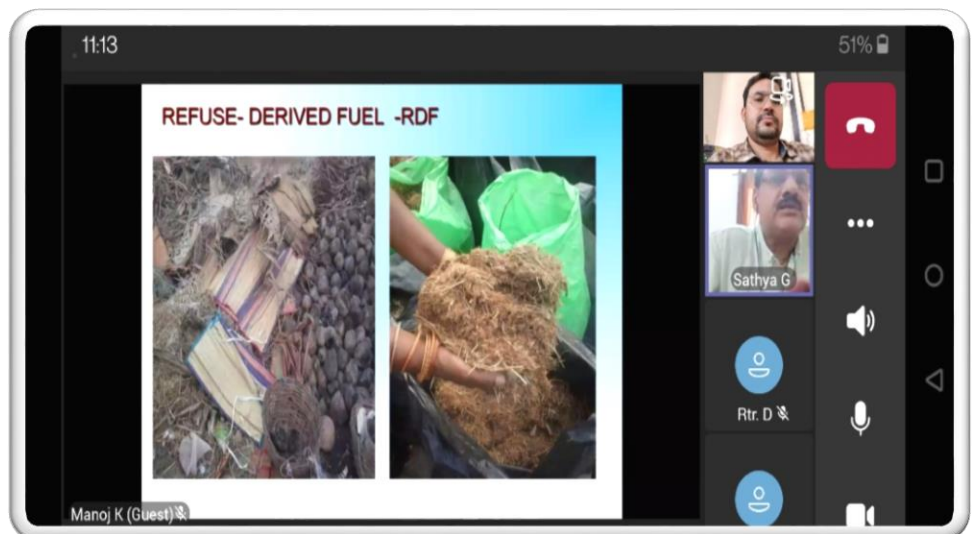
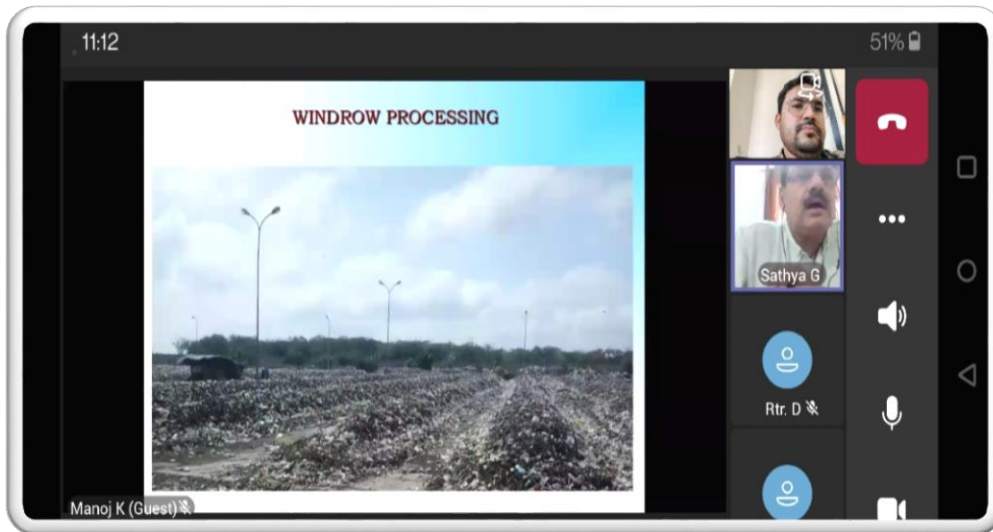
Municipal Solid Waste Management
Facility at Coimbatore

On 22-06-2021

For Sem V & VII and ME-EM Sem II
students

Was conducted in
two sessions.

Glimpse of the visit



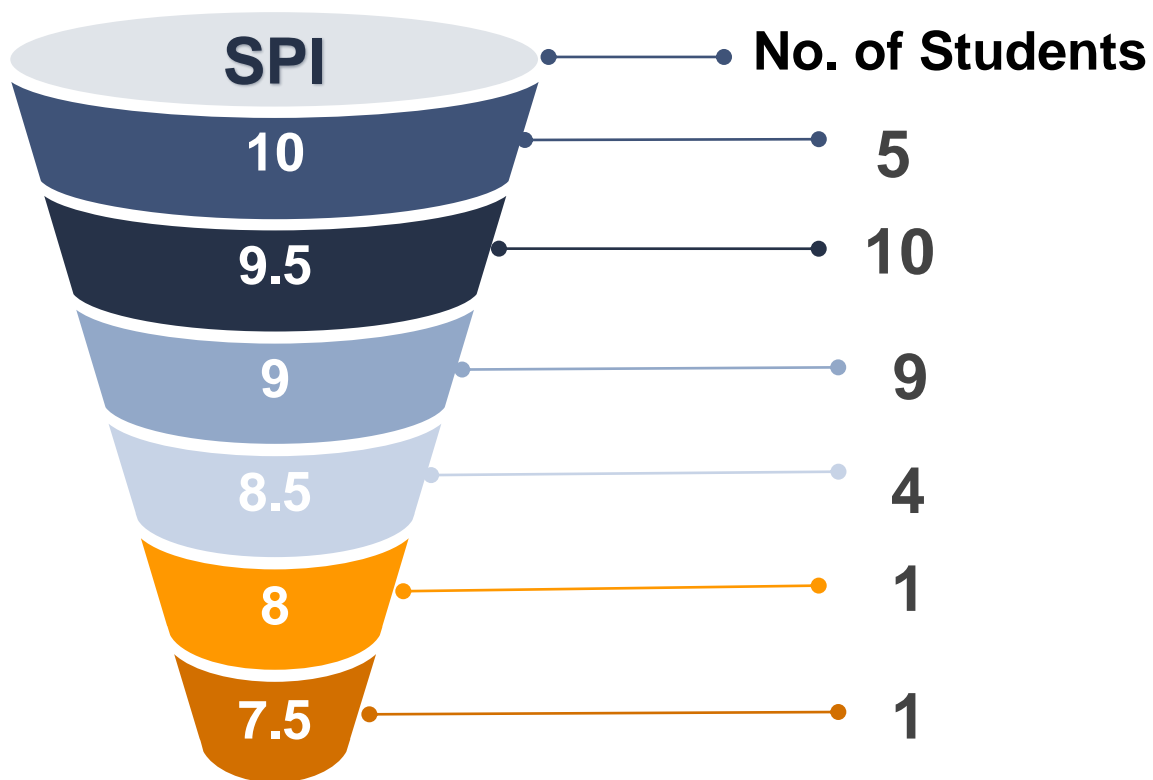


1-2-1 Meeting



1-2-1 MEETING FOR SEM 6 ON 17 MAY 2021

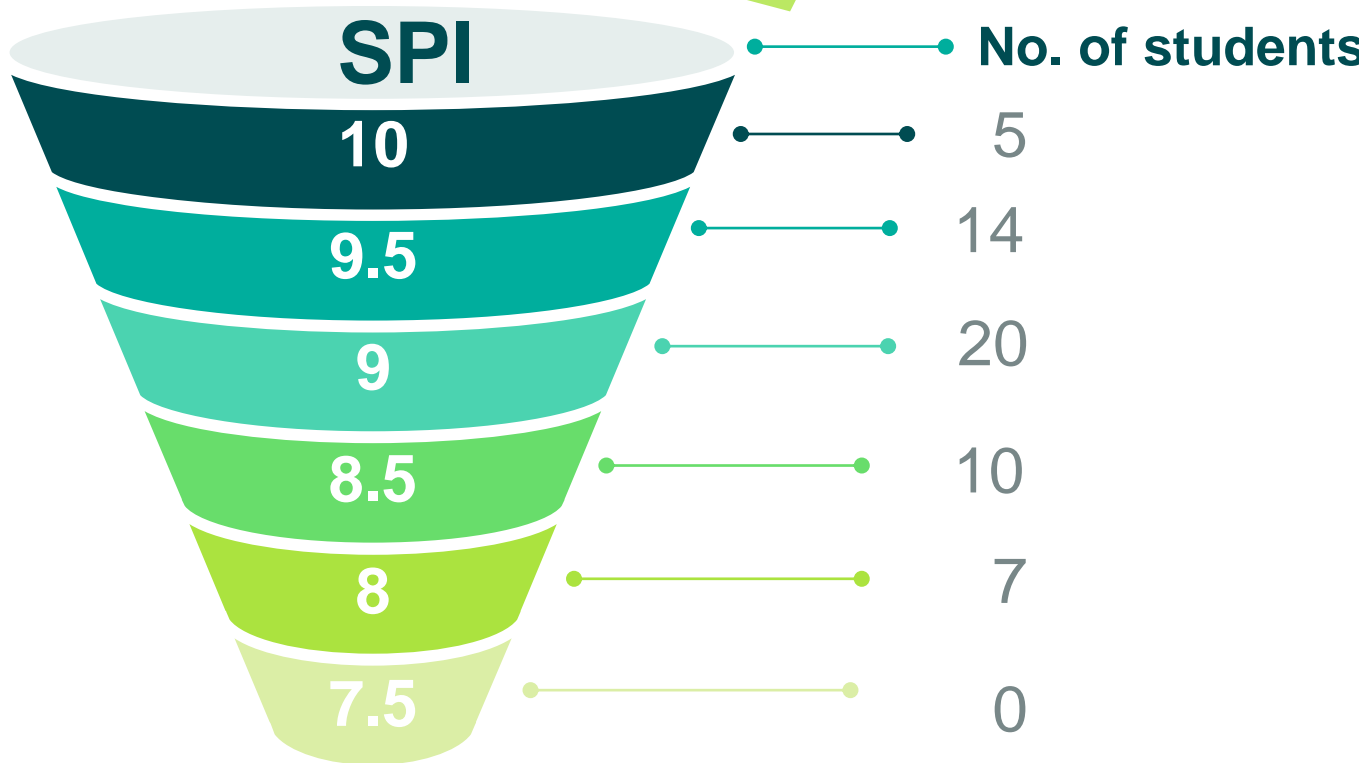
Commitment by students



- Principal sir had interacted with all the students and made students realize the importance of free capital which everyone has like mind, body, spirit, time and intellect.
- Principal Sir also appreciated students for their involvement in social work during pandemic.

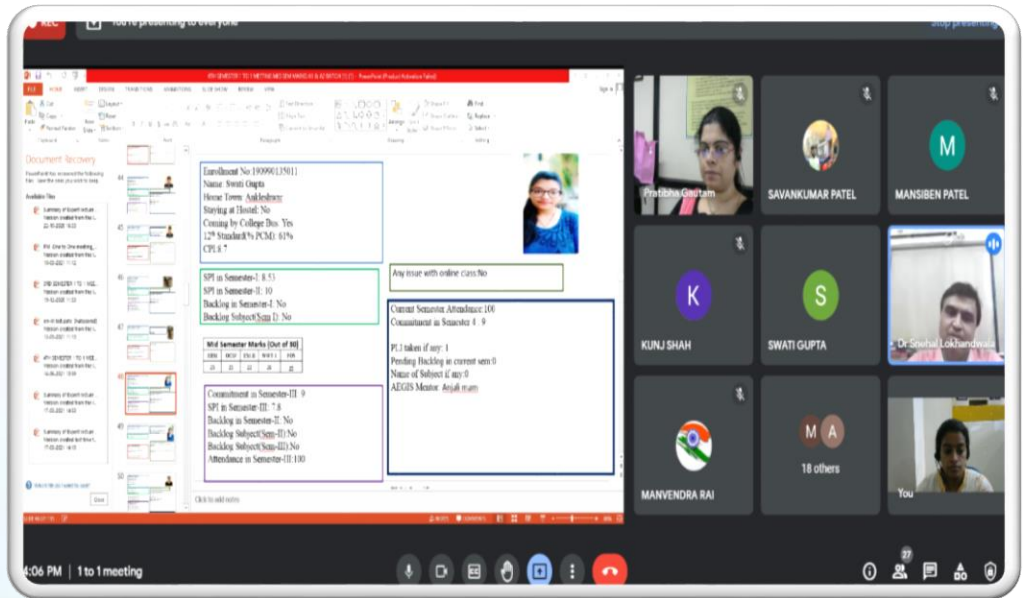
1-2-1 MEETING FOR SEM 4 ON 15 JUNE 2021

Commitment by students



- Vice Principal Sir appreciated students for their performance in weekly tests, encouraged them to strive towards their goal through continuous hard work in terms of working hours.
- The nations call for the vaccination-sir made an appeal to all to complete the vaccination as early as possible.

GLIMPSE OF THE MEETING



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“

SHORT TERM TRAINING PROGRAM



**Topic: Environmental Legislative
Aspects for industries**

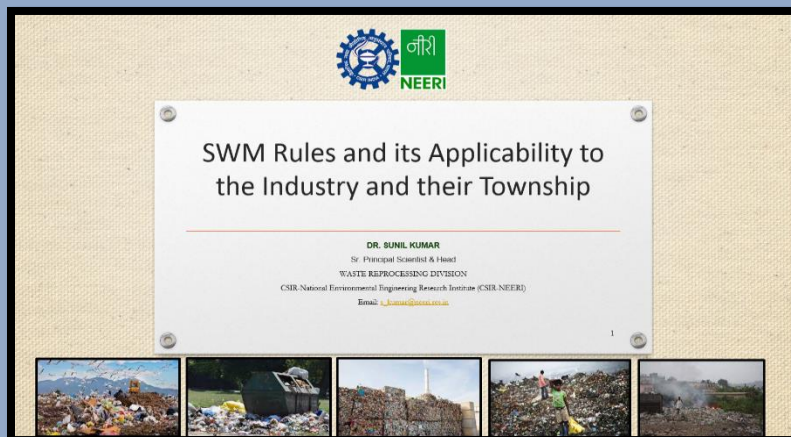
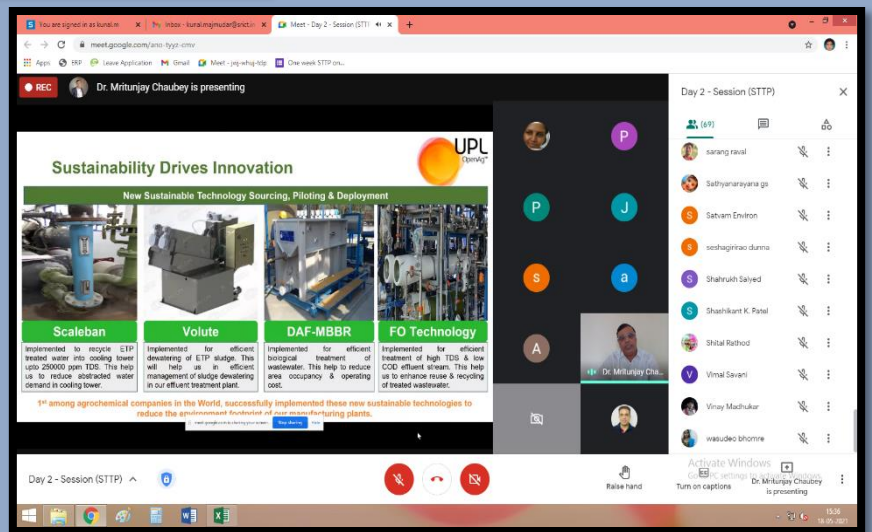
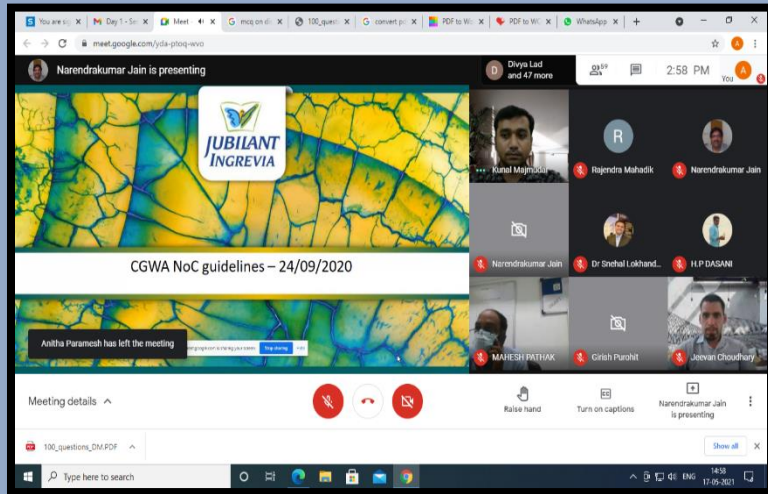
Date: 17 May to 21 May 2021

**Eminent speakers from: Industries,
Research institutions & Government
organizations**

**Attendee: 83 candidates from 27
different industries like Colourtex,
Jubilant, Lupin, Gulbrandsen
Chemicals, Alembic Pharma, Aarti
Industries Ltd, Ecopreneur Inc,
Deepak Phenolics Ltd, Zentiva Pvt Ltd,
etc. , Academic & Research Institutes**

Profit: Approx. 1.40 lakhs

GLANCE OF THE STTP



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***WORLD
ENVIRONMENT
DAY
CELEBRATION***

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Agenda: Tree Plantation
Activity

Date: 05 June 2021

Guest: GPCB (Ankleshwar)
Regional Officer Mr. R. R. Vyas

Participants: Principal Sir, Vice
Principal Sir, members of UPL,
RECA, and faculty members of
the EST department.



Shroff S. R. Rotary Institute of Chemical Technology,
Gujarat Pollution Control Board (Ankleshwar)
and UPL Ltd.

Jointly celebrate

World Environment Day



organized by

Department of Environmental Science & Technology

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GLANCE OF THE TREE PLANTATION ACTIVITY



The logo for the National Board of Accreditation (NBA) features the letters 'NBA' in a bold, stylized, blue font. The letters are thick and have a slight 3D effect, with the 'N' and 'B' having a white outline. The 'A' is also thick and blue. The logo is centered within a white rectangular box.

NATIONAL BOARD
OF ACCREDITATION

Roadmap

Final SAR sent to NBA office

1

Department of Environmental Science & Technology at SRICT is accredited by National Board of Accreditation, New Delhi.

3

2

The audit was conducted on 14 & 15 March 2021.

4

DEST secured 748 marks as per the observations made.



NATURE CLUB ACTIVITIES

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WEBINAR

TOPIC AND DATE:

Every drop matters
and 15th April 2021

PARTICIPANTS:

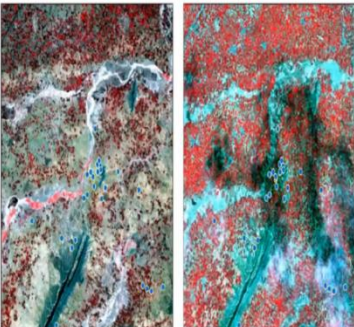
more than 120 from industries,
NGOs and academics

DELIVERED BY:

WATER MAN OF INDIA,
Mr. Rajendra Singh

GLIMPSE OF THE WEBINAR

16 March 1994 20 March 2014



- Blue color spots depicts RWHS
- Immense Increase in vegetation is clear in the region


False Color composite is depicted as Red

Credit: National Remote Sensing Centre, Hyderabad, India

tarun bharat sangh

Host DEST

Recording...



Participants (109)

Waiting Room (1) DRASHTI MODI

In the Meeting (109)


- HD Host DEST (Co-host, me)
- MP Mital Patel (Host)
- Prasad Kale (Co-host)
- DR Dr. Rajendra Singh
- DS Dr. Snehal
- Pratibha Gautam
- SW Shrikant Wagh
- P Praful
- 4286
- A Aakancha
- AP Aayushi Parmar

Rotary Ankleshwar

SRICT

UPL


Shroff S.R. Rotary Institute of Chemical Technology
Department of Environmental Science & Technology
Welcomes you all to the webinar



every drop matters

In collaboration with

Rotary e-club of Ankleshwar Green, Nature Club of SRICT and IEI students' chapter (393135/SRIC/EN)



Topic: Birds Around Us

Date: 22 May 2021

Delivered by: Mr.

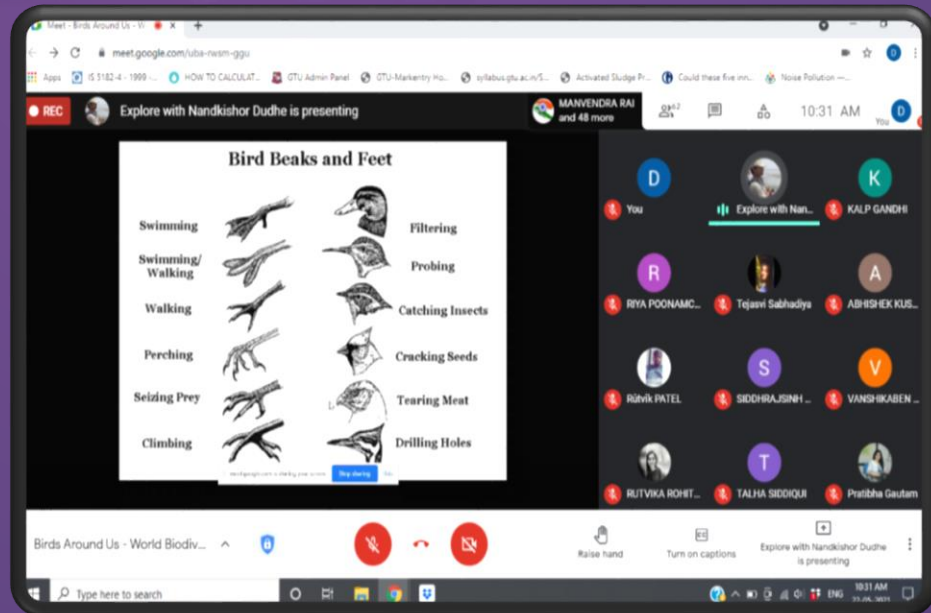
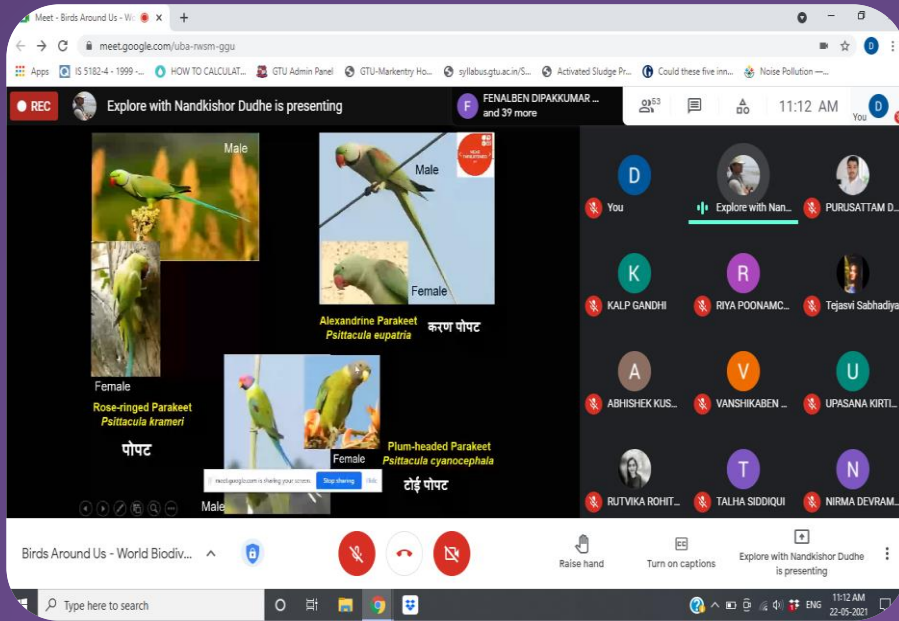
**Nandkishor Dudhe,
Program Officer - BNHS
ENVIS**

**It was a very interactive
session and students actively
participated in it**

WORLD
BIODIVERSITY
DAY

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GLIMPSE OF THE WEBINAR



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ONLINE COMPETITION

Online Competition Theme:
अभिव्यक्ति

(EXPRESSING VIEWS) on
“Effect of Covid-19 on Education”

Date: 11 April 2021

Active participation of students was
there



UPL
OpenVg™

SRIC

Rotary
Anklshwar

NATURE CLUB OF SRIC, DEPARTMENT OF ENVIRONMENTAL SCIENCE & TECHNOLOGY
& INSTITUTION OF ENGINEERS INDIA (IEI) STUDENTS' CHAPTER (393135/SRIC/EN)

Jointly organizes

अभिव्यक्ति (EXPRESSING VIEWS)
on
EFFECT OF COVID-19 ON EDUCATION

COVID-19 EFFECT

Last Date to Apply:
8th April before 7:00 pm

<https://forms.gle/LhP8TRR9vQ1WWFb86>

All the participants and winners will be given e-certificates.

Winners of the competition

1st position



Avinash Prasad, ME, 1st Sem



Prasad Kale, B.E. 6th Sem

2nd Position



Vivek Gajara, B.E. 1st Sem



Zeel Anant Desai, B.E. 1st Sem

3rd Position



Chiranjeev Tiwari, B.E. 1st Sem

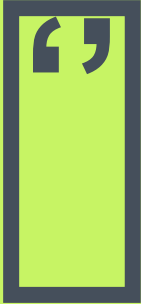


Jay Patel, M.E., 1st Sem

A top-down view of a desk workspace. On the left is a white ceramic mug. In the upper center is a silver laptop. Below the laptop is a spiral-bound notebook with lined pages. A black pen lies horizontally across the notebook. To the right of the pen are a green paperclip and a green pushpin. Further to the right is a white ruler with black markings and the text 'Shatterproof' printed on it. The background is a light-colored desk surface.

OTHER ACTIVITIES

TECHNOMICS!



“Embrace bad news to learn where you need the most improvement”

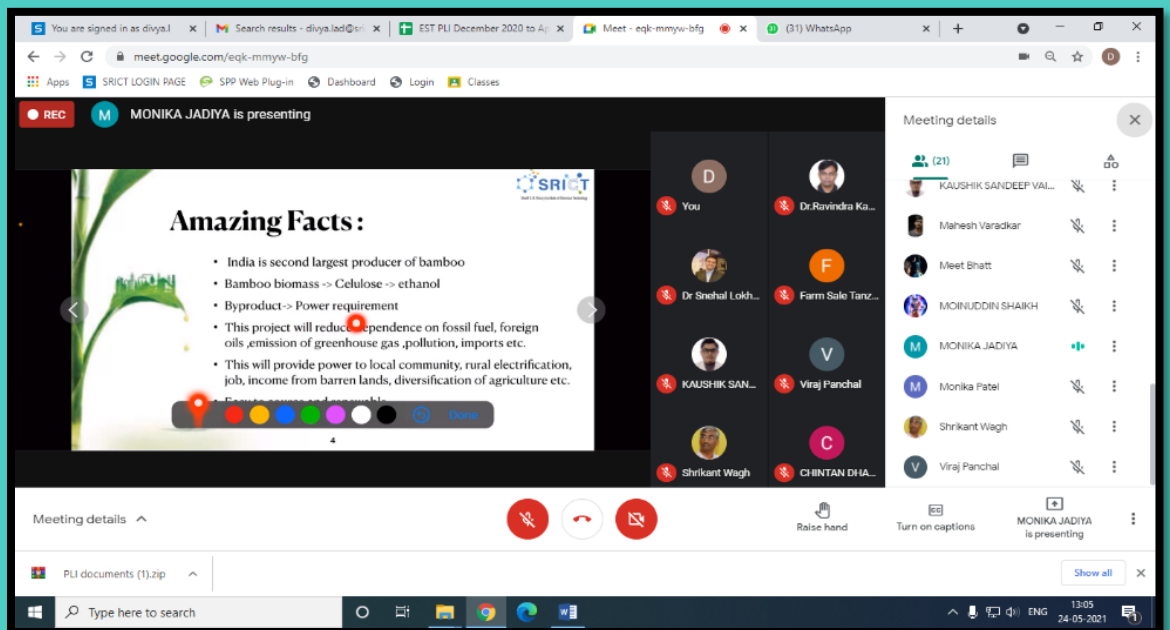
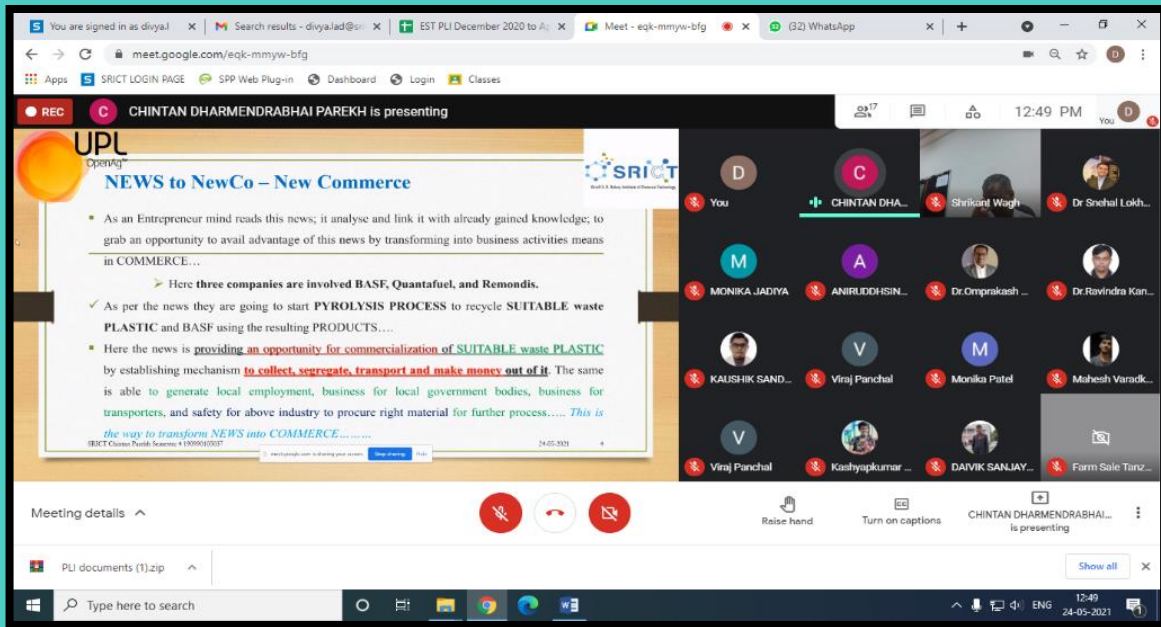


❑ **SRICT has organized an event called “TECHNOMICS” for the growth and development of the students on 24 May 2021.**

❑ **The main purpose of this event is to present the best news from Industrial newsletter (ICN and Chemical Daily) by means of presentation.**

❑ **5 students from our department has actively participated in the event and *Moinuddin Shaikh from sem 4* has secured *2nd position* in the event.**

GLIMPSE OF THE EVENT



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Virtual Project Fair



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Details of virtual project fair for sem-8 students

Total Project groups: 10

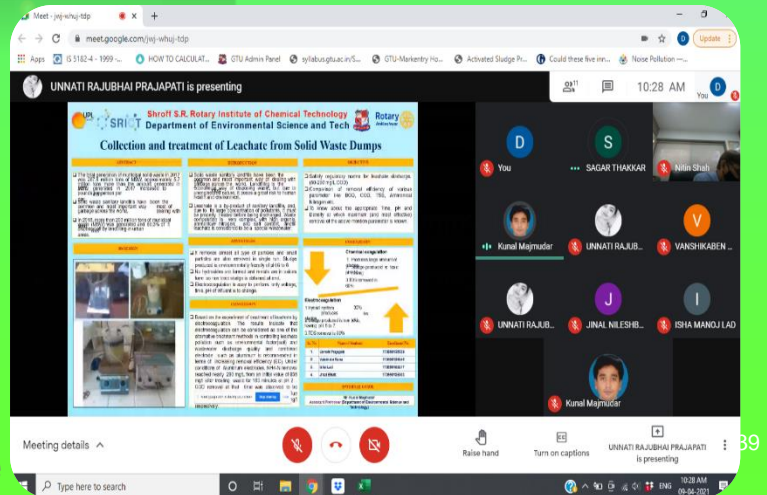
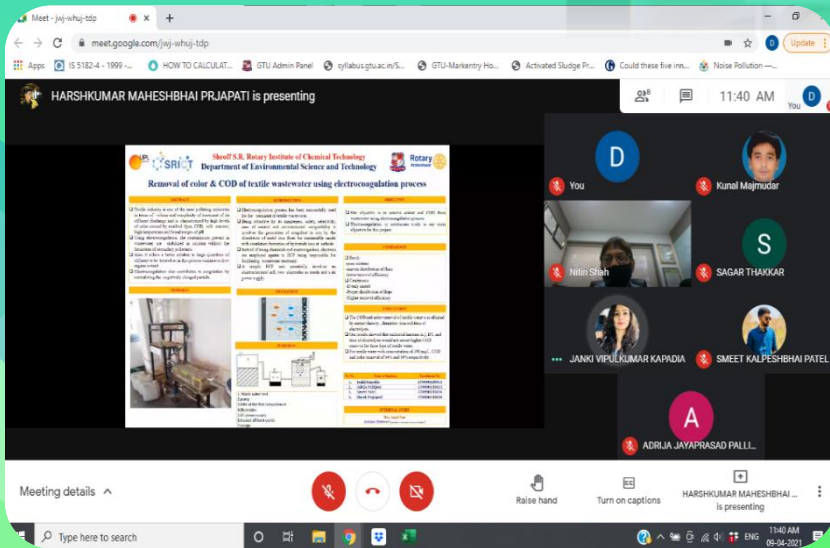
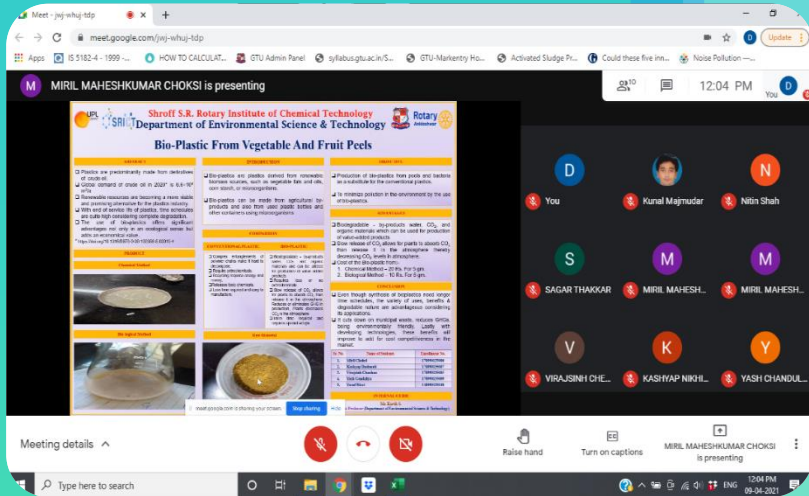
Date: 9 April 2021

External Examiner: Mr. Nitin Shah, Manager EHS Zydus Cadila, Mr. Rushi Shah, Dy. Gen Manager, Intas Pharma

Internal Examiner: Mr. Darshan Salunke

In total 10 videos links of different projects are uploaded on SRICT YouTube channel.

Glimpse of the Event



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Faculty Achievements



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- Topic of the paper:
Characterization of Hazardous Waste Landfill Leachate and its Reliance on Landfill Age and Seasonal Variation: A Statistical Approach
- Impact factor of the journal: 4.3
- Journal matrices: Volume 9, Issue 4, August 2021, 105496

Journal of Environmental Chemical Engineering 9 (2021) 105496

Contents lists available at ScienceDirect

 Journal of Environmental Chemical Engineering 

journal homepage: www.elsevier.com/locate/jece

Check for updates

Characterisation of Hazardous Waste Landfill Leachate and its Reliance on Landfill Age and Seasonal Variation: A Statistical Approach

Pratibha Gautam^{a,b}, Sunil Kumar^{a,b,*}

^a Academy of Scientific and Innovative Research (ACSIR), Ghaziabad 201002, India
^b CSIR National Environmental Engineering Research Institute (CSIR-NEERI), Nehru Marg, Nagpur 440020, India

ARTICLE INFO

Editor: Dr. G. I. Dotto

Keywords:
 Leachate
 Hazardous waste landfills
 Characterisation
 ANOVA
 Post hoc analysis

ABSTRACT

Leachate generated due to disposal industrial solid waste into common hazardous waste landfills (HWLs), has high potential to contaminate nearby soil and groundwater and hence its catchment and treatment are crucial for sustainable solid waste management. This research is emphasised on creating an extensive data set generated from analysing three hazardous waste landfills of age 2-year, 11-year and 20-year for a duration of one year to characterise the leachate and to create an in-depth understanding about the effect of landfill age and seasonal variation on leachate characteristics. Results in the form of descriptive statistics showed the simultaneous occurrence of high chemical oxygen demand (COD) (up to 35,000 mg/l) and high concentration of total dissolved solids (TDS) (up to 3,00,000 mg/l), ammoniacal nitrogen (up to 2300 mg/l) and heavy metals. Statistical analysis through ANOVA and Post Hoc analysis indicated that the age of landfill significantly affects the leachate characteristics and for most of the parameters, the concentrations were found to increase till middle age and then subside towards maturity of landfill. In contrast to this, for seasonal variation, less significant influence was observed on the leachate characteristics. Although the concentration of different parameters was found to vary



Confederation of Indian Industry

Certificate of Achievement

This is to certify that

Prof Pratibha Gautam

is a

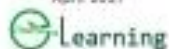
**Certified Professional in
Green Supply Chain**

K S Venkatagiri
Executive Director
CII - Godrej G&C

Pradeep Bhargava
Chairman
CII - Environment & Recycling Council

Issued by CII - Sarvagaj Godrej Green Business Centre Hyderabad

Certificate No: CPGSC/01/042021
April 2021



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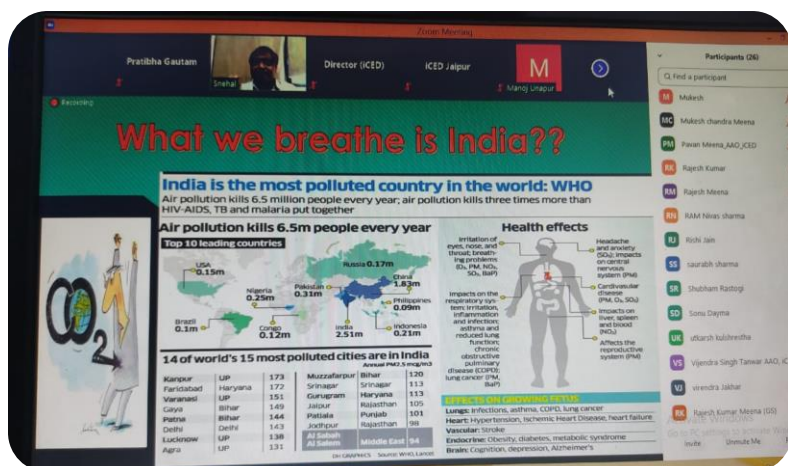
Regarding Invitation as Guest faculty

Topic: "Impact of Covid-19 on Environment : A brief study in Indian Context"

Date: 01 June 2021

Name of faculty invited: Dr. Snehal Lokhandwala

Organized by: International Centre for Environment Audit and Sustainable Development (iCED), Jaipur



KNOW YOUR FACULTY

Name of Faculty: *Ms.
Bhasha Mehta*

Qualification:
*B.E in
Environmental
Engineering and M.E
in Environmental
Management*

Experience:
5.5 years

Area of interest:
*Water Pollution
Air Pollution*





birthdays

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FACULTY BIRTHDATES

BHASHA MEHTA

STUDENT BIRTHDATES

Nidhi bhavsar, Jagruti Chaudhari,
Ankit Pandey, Disha Patel, Dhruvil
Purani, Riya Sharma, Ashish Yadav,
Hinkal Topiwala, Khushi Patel, Dhruti
Prajapati, Sankalp Rami, Parth
Chaudhari, Raxit Patel, Swati Gupta,
Hemant Raj Singh, Yash Dave, Yash
Gondaliya, Dhrasti Kheni, Pankti
Rana, Reeya kumara Parmar, Nirali
Suhagiya, Anjali Patel, Parth Patel,
Rutvik Patel, Harsh Prajapati

ENVIRONMENTAL NEWS



APR 10, 2021 07:07 PM
Hindustan times



Study suggests human noises are altering ocean landscape
Study suggests human noises are altering ocean landscape

APR 09, 2021 09:27 PM
Hindustan times



Third of Antarctic ice shelf area at collapse risk due to global warming: Study

APR 08, 2021 01:15 PM
Hindustan times



Discarded masks litter beaches worldwide, threaten sea life

MAY 24, 2021 10:08 PM
Hindustan times



EU leaders set for spat over distribution of carbon-cut burden

MAY 19, 2021 12:31 PM
Hindustan times



Forest clearance for infra projects in extremism affected, border areas eased

MAY 19, 2021 08:05 AM
Hindustan times



Scrap all new fossil fuel projects for 2050 goals': Report

JUN 14, 2021 02:14 AM
Hindustan times



Climate change: Tackling increasing lightning strikes

JUN 24, 2021 08:48 AM
Hindustan times



Climate change: Tackling increasing lightning strikes

SAVE THE WORLD



THANK YOU