







18th Issue
July-Sep 2021





DEPARTMENT OF ENVIRONMENTAL SCIENCE & TECHNOLOGY

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EDITORIAL BOARD



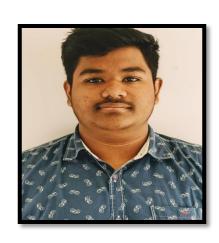
Pratibha Gautam Head-DEST



Amishi Popat Asst. Prof, DEST



Ms. Zeel Desai SEM- III



Mr. Purusattam Das SEM - V



Mr. Kale Prasad SEM - VII

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.

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.



ACTIVITIES



Expert Lecture

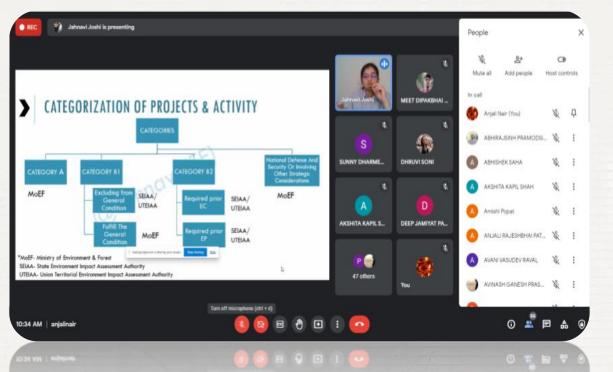
DETAILS OF THE EXPERT TALK

Sr. No.	Semester	Designation of Expert (With name of industry)	Date
1	2 (PG- EM), 3, 5	Environment Engineer, Ahmedabad Municipal Corporation	12/07/2021
2	2 (PG- EM), 5	Environment Engineer, UPL	24/07/2021
3	2 (PG- EM), 3	Environment Engineer, Precitech Laboratory	11/8/2021

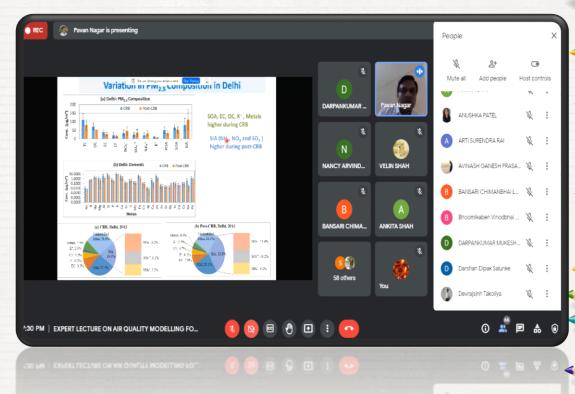
DETAILS OF THE EXPERT TALK

Sr. No.	Semester	Designation of Expert (With name of industry)	Date
1	5	Assistant Director, NPC	17/09/2021
2	7	Head Soil Organic Carbon at Nature farm	17/09/2021
3	7	EHS Executive, Tagros Limited	18/09/2021
4	3	Manager of Head Quality Assurance at Synergia Science, Dahej	25/09/2021





Lecture by Ms. Jahnavi Dave on 11.08.2021



Lecture by Mr. Purvesh Soni on 24.07.2021



DETAILS OF INDUSTRIAL VISIT

Sr. No.	Semester	Name of Industry	Date
1	2 (PG- EM), 5	CETP Baddi, Himachal Pradesh	02/07/2021
2	2 (PG- EM)	ISWM Plant at CSIR- CMERI, Ludhiana	04/08/2021
3	2 (PG- EM)	Wastewater Treatment Plant	07/08/2021

DETAILS OF INDUSTRIAL VISIT

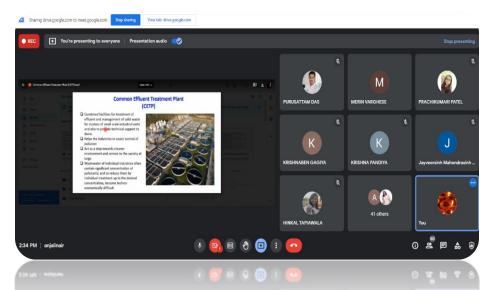
Sr. No.	Semester	Name of Industry	Date
1	7	140 MLD Sewage Treatment Plant, Dinapur	22/09/2021
2	5	CETP, NCT, DELHI	23/09/2021
3	7	BEIL Infrastructure Ltd.	23/09/2021

DETAILS OF INDUSTRIAL VISIT

Sr. No.	Semester	Name of Industry	Date
1	3	Amul Butter	24/09/2021
2	7	Municipal Solid Waste Treatment Plant, Durgapur	29/09/2021
3	5	BINGWAN, STP, KANPUR	29/09/2021



GLIMPSE OF THE INDUSTRIAL VISIT



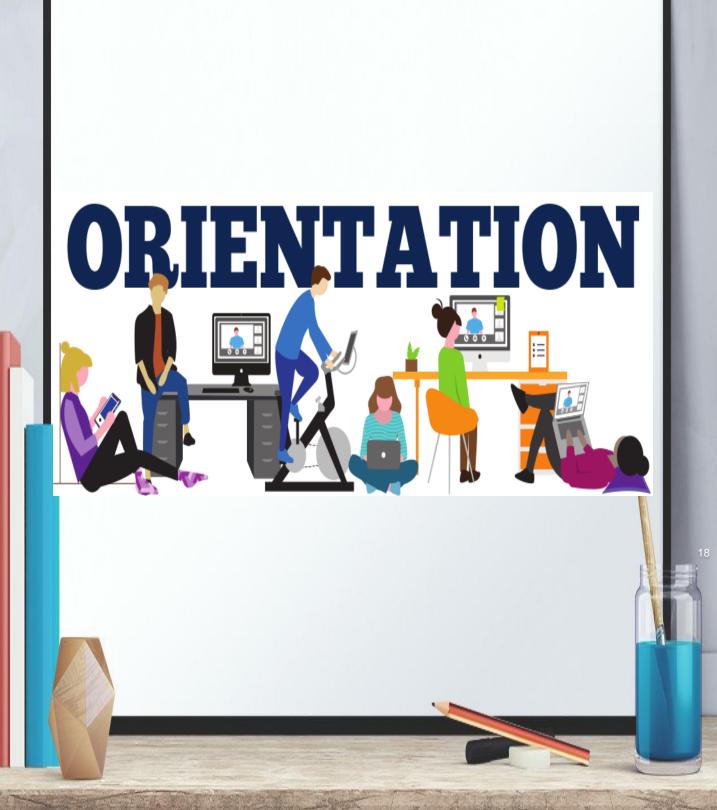
Virtual Visit at CETP, NCT, DELHI on 23.09.2021



Virtual Visit at STP, Varanasi 22.09.2021

Commencement of Offline classes of Sem 5 and Sem 7 from 19th July 2021





Orientation Program for 3rd semester students (Batch 2020) on August 02, 2021

- ❖ Ms. Pratibha Gautam (HOD-EST) addressed the students and briefed them about attendance policies, rules & regulations, Department's achievements, Mid Semester Exams, 5S, AEGIS, departmental Labs, & other facilities.etc.
- Students were introduced to current semester's subjects and faculties.



We share because we care

GLIMPSE OF THE SESSION

Orientation Program for Newly Incubated Students of EST Batch 2020

Organized by
Department of Environmental
Science & Technology



OFFLINE PRACTICALS



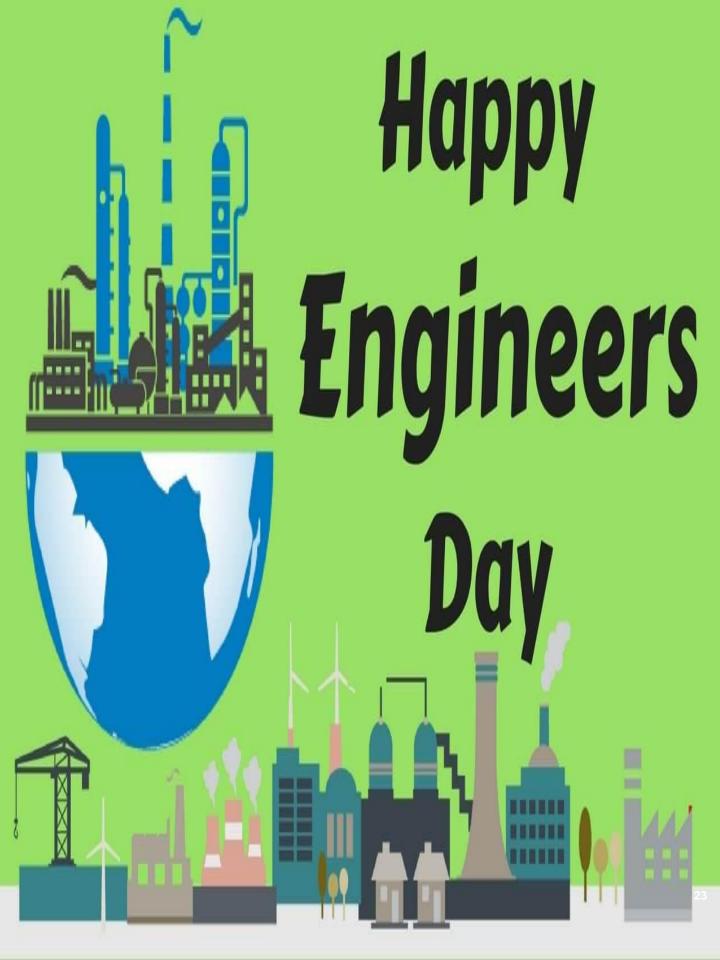
Offline practicals were carried out in small batches in different subjects in all semesters.



GLIMPSE OF THE OFFLINE PRACTICALS





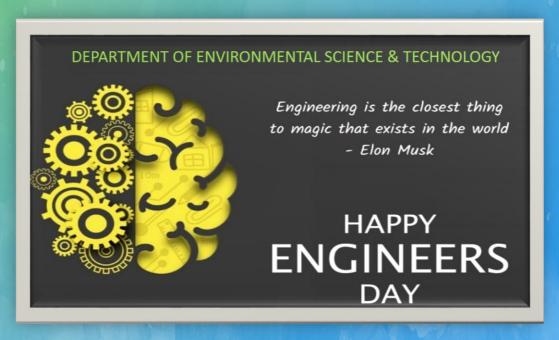


ESSAY COMPETITION ON ENGINEER'S DAY

TOPIC: Future Engineer

DATE: 15th September 2021

PARTICIPATION DETAILS:
65 Students from various departments





QUIZ COMPETITION

THEME:

Biofuels: A Step Towards Sustainable

Future

DATE:

10/08/2021

PARTICIPATION DETAILS:

89 registrations from different branches



GLIMPSE OF THE COMPETITION

Feedback of Quiz

It's very knowledgeable.

Tapan Baldha

It contains a large information which I was not knowing previously. It was good.

Pal Priti Jagdishbhai

Excellent

Patel Dhaval Rameshbhai

Its an amazing test

Ankit kumar sanjay

Very Useful

Siddharthsinh Narendrasinh Sindha

GOOD QUESTIONS

Makwana Anantkumar Arvindbhai





GLIMPSE OF THE EVENT







SELFIE CONTEST



THEME:

Back to my campus with all safety measures

PICTURES TO BE POSTED ON:

Instagram and Facebook page with a tagline of UPL-University of Sustainable Technology

ENTRIES ALLOWED TILL:

31st July 2021

GLIMPSE OF THE WINNERS IN THE CONTEST



Viraj Parekh- B.E Mechanical



Monilkumar Modi- M.Sc Chemistry



Krishna Dobariya- M.Sc Chemistry



SOCIAL SERVICE DURING PANDEMIC

AUTOMATIC SANITIZING MACHINE

- Student named Dishant Prajapati from Sem 7 along with his friend has made automatic sanitizer machine which he has donated to government offices, collector offices and also to the college.
- The outer body is made from Acrylic material and it has been designed to be suitable in every place, with every furniture.



Glimpse of the machine donated to the college







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Viraj Prankada, 7th semester Student stood 2nd in Pistrict level Powerlifting Competition where he lifted 460 kg.

He also stood 2nd in District Level Bench Press Championship and was awarded silver medal where he lifted 100 kg.





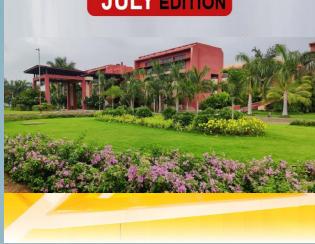
Installation Ceremony





ROTA
Communiqué

JULY EDITION



Rtr. Purusattam Das student of Sem 6 is the Bulletin Editor and Graphic Designer of Rotaract Club of SRICT, Ankleshwar.

He and his team is bringing new projects and also are encouraging the young juniors to participate in different activities.







3 Day On-line Training course on Compliance, Verification, Reporting on Environment, Social, Governance Standards by Indian Industries and Companies Conducted by National Productivity Council, Kanpur

Date of Training: 1-3
September 2021

Name of Faculty:

Ms. Pratibha Gautam



3 Day On-line Training course on Compliance, Verification, Reporting on Environment, Social, Governance Standards by Indian Industries and Companies Conducted by National Productivity Council, Kanpur

Date of Training: 1-3 September 2021

Name of Faculty: Mr. Kunal Majmudar



FIRST PUBLICATION FROM UPL-**UNIVERSITY OF SUSTAINABLE TECHNOLOGY**

Environmental Research

Name of Faculty:

Ms. Pratibha Gautam

Impact Factor: 5.02

Environmental Research 203 (2022) 111839 Contents lists available at ScienceDirect



Environmental Research



SARS-CoV-2 and other pathogens in municipal wastewater, landfill leachate, and solid waste: A review about virus surveillance, infectivity, and inactivation



- Department of Life Sciences and the National Institute for Biotechnology in the Negor, Ben Garion University of the Negor, Beer Sheva, 841.

 School of Civil, Mining and Environmental Engineering, University of Wollongong, Australia

 Department of Environmental Engineering, University of Wollongong, Australia

 Department of Environmental Science & Technology, Shroff S.R. Rosury Institute of Chemical Technology, UPL University of Statistically Department of Environmental Science & Technology, Shroff S.R. Rosury Institute of Chemical Technology, UPL University of Statistically Department of Chemical Engineering, Maulana Aaad National Institute of Technology, Bhopd, 462 003, Madilyan Pradesh, India Department of Chemical Engineering, Maulana Aaad National Institute of Technology, Bhopd, 462 003, Madilyan Pradesh, India Papartment of Shoury, Nanda Nath Sakkia Callege, Dhokadr Ali, Titaber, 785000, Assam, India Medicaler Disloger, Bharathiar University, Co. Plantam Bedecular Cytogenetics and Storn Cell Laboratory, Department of Humana Genetics and Moccolar Biology, Bharathiar University, Co. Postantian Computer of Medical Research Institute (BMRI), University of Wollongong, Wollongong, Australia

ARTICLEINFO

A B S T R A C T.

This review discusses the techniques available for detecting and inactivating of pathagens in municipal watewater, landfill leachate, and solid waste, in view of the current COVID-19 pandemic, SARS-GOV-2 is being given
special attention, with a thorough examination of all possible transmission pathways; lanked to the selected waste
matrices. Despite the lack of works focused on landfill leachate, a systematic review method, based on cluster
matrices. Despite the lack of works focused on landfill leachate, a systematic review method, based on cluster
the work on technologies able to detect and treat pathogens. In this work, great attention is also devoted to
infectivity and transmission mechanisms of SARS-GOV-2. Moreover, the literature analysis shows that sewage
sludge and landfill leachate seem to have a remote chance to act as a virus transmission route (poliution-tohuman transmission) due to improper collection and treatment of municipal wastewater and solid waste.
However due to the incertitude about virus infectivity, these possibilities cannot be excluded and need further
psecific disinfection, but also the regular surveillance or monitoring of viral loads in sewage sludge, wastewater,
and landfill leachate. The disinfection strategies need to be optimized in terms of dosage and potential adverse
impacts like antimicrobial resistance, among many other factors, Inally, the presence of SARS-GOV-2 and other
pathogenic microorganisms in sewage sludge, wastewater, and landfill leachate can hamper the possibility to
ensure safe water and public health in economically marginalized countries and hinder the realization of the
United Nations' sustainable development goals (SDGs).

PUBLICATION FROM UPL-UNIVERSITY OF SUSTAINABLE TECHNOLOGY

Environmental Science and Pollution Research, Springer

Name of Faculty:

Ms. Pratibha

Gautam

Impact Factor: 4.3



Research Article | Published: 03 September 2021

Reduction of chemical oxygen demand through electrocoagulation: an exclusive study for hazardous waste landfill leachate

<u>Pratibha Gautam</u> & <u>Sunil Kumar</u> ⊠

Environmental Science and Pollution Research (2021) Cite this article

65 Accesses Metrics

Abstract

Leachate produced from hazardous waste landfills has been observed to exhibit very complex characteristics including the presence of a high amount of refractory organics and toxic elements which make it unfit for conventional treatment. This study is focused on the characterization and treatability of "hazardous waste landfill leachate" through electrocoagulation for the reduction of chemical oxygen demand (COD). Effect of different

PUBLICATION FROM UPL-UNIVERSITY OF SUSTAINABLE TECHNOLOGY

Book Chapter- Springer

Name of Authors:

- Dr. Snehal Lokhandwala (Faculty)
- Mr. Dishant Khatri (Alumni)
- Ms. Pratibha Gautam

(Faculty)





COVID-19 pp 61-82 | Cite as

Assessment of Air Quality Impact Due to Covid-19: A Global Scenario

Authors Authors and affiliations

Snehal Lokhandwala , Dishant Khatri, Pratibha Gautam

Chapter
First Online: 28 August 2021

Downloads

Part of the Environmental Footprints and Eco-design of Products and Processes book series (EFEPP)

We share because we care

Abstract

FACULTY'S PARTICIPATION IN LMI AND LMAD TRAINING PROGRAMME

□In LMI:

- Ms. Pratibha Gautam
- Mr. Kunal Majmudar
- Mr. Kartik Iyer
- Mr. Darshan Salunke
- Mr. Arijit Gupta
- Ms. Anjali Nair
- Ms. Bhasha Mehta
- Ms. Amishi Popat
- Ms. Divya Lad
- Ms. Preeti Sant

□In LMAD:

Ms. Divya Lad

PROJECT FOR
ENVIRONMENTAL
AUDIT OF TSDF,
BEIL IN
COORDINATION
WITH NPC

NPC team from Delhi visited BEIL during 15-17 September 2021 and their visit was accompanied by SRICT team.

- Name of Auditors from NPC team:
- Ms. Nikita (Assistant Director, NPC)
- Mr. Lalit Kamde (Assistant Director, NPC)
- Mr. Himendra Singh
- Name of Auditors from SRICT team:
- Ms. Bhasha Mehta
- Ms. Amishi Popat

The Project has been successfully completed.

GLIMPSE OF THE VISIT







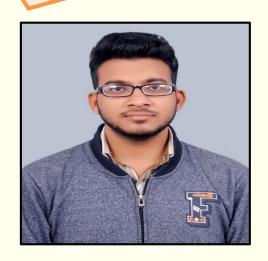




GET TO KNOW YOUR FACULTY







Name: Mr. Arijit Dutta Gupta
Qualification: PhD in Chemical
Engineering

Experience: 1 year

Area of interest: Heat & Mass Transfer,

Adsorption, Catalysis

GETTO KNOW YOUR ALUMNI



Name: Shefali Chokshi

Batch: 2013

Currently working at: ACC Ltd.,

Vadodara (Assistant Manager)



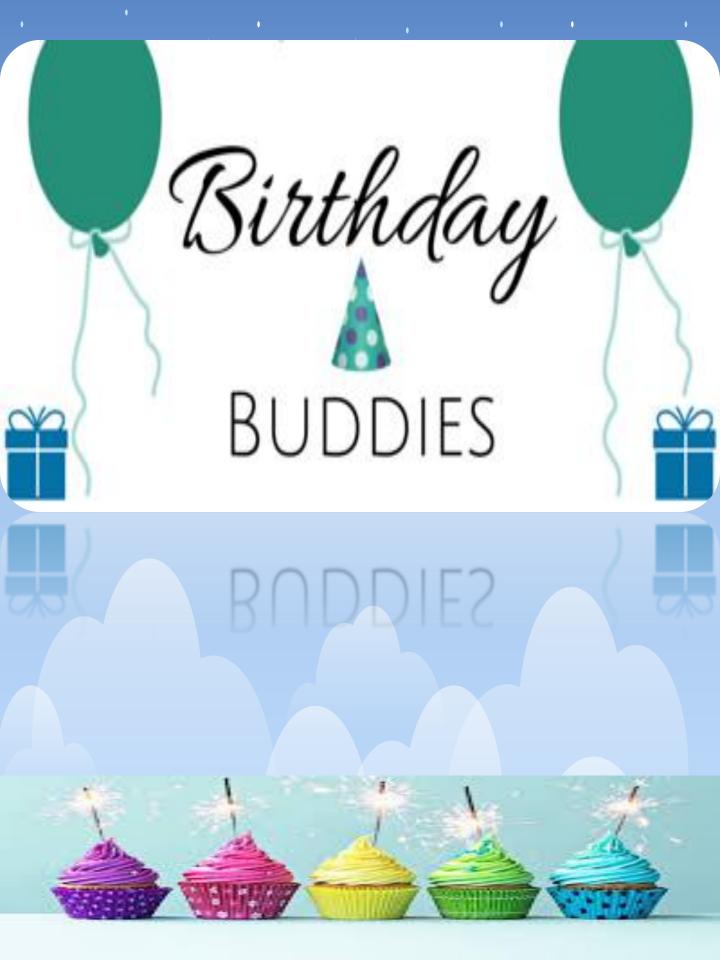


Name: Shreya Kundu

Batch: 2013

Currently working at: UPL, Ltd.

(Executive, Env)



FACULTY BIRTHDATES

PRATIBHA GAUTAM KUNAL MAJMUDAR ANJALI NAIR

STUDENT BIRTHDATES

Chaudhari Nirma, Gandhi Het, Lunagariya Bansari, Patel Raj, Prajapati Dishant, Manvendra Rai, Patre Aniket, Gandhi Kalp, Patel Dhruvik, Siddiqui Talha, Patel Viral, Modi Richa, Sharang Tulsi, Dayma Siddhraj, Patel Riddhi, Patel Anushka, Virani Viraj, Raj Mohitsinh, Ankit Singh, Saurabh Vasava, Kushwaha Jaydeep, Mohemad Kaif, Vivek Gajara



Hindustan News

Ministry releases amnesty scheme for violators of environment norms
Jul 14, 2021

Flyash from power station in bihar wreaks havoc on human health, crop: study Jul 15, 2021

Mining permit: govt allows transfer of green nod from old to new lessees
Jul 16, 2021

Climate crisis and callous urbanization will make floods more expensive in India

Aug 13, 2021

Hindustan News

Plan to enforce single- use plastic ban in works, says pollution control panel Aug 14, 2021

NASA visualises how see levels will rise in indian coastal regions Aug 18, 2021

Air pollution likely to cut 9 years of life expectancy of 40 % of Indians Sep 1, 2021

Green piece: climate crisis mitigation must be reflected at municipal level Sep 6, 2021

