



# CV NEWS

Newsletter

March 2021

Issue:3

DEPARTMENT OF  
**CIVIL**  
ENGINEERING



# PDEU

PANDIT DEENDAYAL ENERGY UNIVERSITY

Formerly Pandit Deendayal Petroleum University (PDPU)





To prepare competent Civil Engineers through technovations, research and excellence in education for serving evolving human needs and infusing sustainable developments.



1. To ignite and energize young minds and arm them with the 'Roots of Knowledge' and 'Wings of Creativity'.
2. To excel as a 'Problem Solver' by promoting and supporting cutting edge research, innovations and excellence in education.
3. To Unfold 'new realms of Civil Engineering' addressing the needs of the Industry and Society for sustainable development.



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CIVIL NEWS OUTSIDE CAMPUS

CV-NEWS 2021

Published by:

Student Chapters:-

1. Institute of Civil Engineers
2. Envirofreaks



Department of Civil Engineering,  
School of Technology,  
Pandit Deendayal Petroleum  
University  
Raysan, Gandhinagar-382426.



## WOMEN'S ROLE IN CIVIL DEPARTMENT

In the last 11 years, I have experienced the life of a woman in the Construction Industry, Research, and Academia. A female's life especially in the construction sector could indeed be a bit challenging in terms of social norms, cultural aspects, gender stereotypes, physical restrictions, and work environments. I can proudly say that being in the civil engineering profession has only made me stronger and smarter.

My experience at PDEU has been exhilarating with the amount of trust put on me regardless of my gender. Supportive seniors, colleagues, staff, and a conducive work environment always helped me excel in my career and happily accomplish **my responsibility as a mother and homemaker**. On this International Women's day, I would like to salute every woman in the Civil Engineering profession, from a construction labourer, a student, an engineer to a professor. Keep Shining!

- Dr. Uma Chaduvula



**Dr. Uma Chaduvula**  
Assistant Professor,  
Department of Civil Engineering



**Dr. Niragi Dave**  
Assistant Professor,  
Department of Civil Engineering

I came to PDEU in December 2013 after which I have observed a complete change in my outlook and dynamics. The atmosphere here is conducive to personal and professional growth and it has greatly helped in shaping me into a more confident and self-motivated woman. The exposure that the university provides in terms of research, project and consultancy had an immense sway in my personality enabling me to complete my Ph.D. successfully and having research papers published in Scopus indexed journals. It has given me a cutting-edge to my teaching, research and other university related works. It has also resulted in a well-groomed personality and holistic development giving me a new meaning, perspective and purpose in all aspects of my personal and professional life.

-Dr. Niragi Dave



## WOMEN ARE THE REAL ARCHITECT OF THE SOCIETY

**Busy days and little time to rest.** That's how a life of working woman is. On her toes always managing her own little world whether a home maker or a working lady. My journey of almost 7 years in Environmental Consultancy firm and PDEU was quite challenging striking a balance between personal and professional life but through the support of Faculties, seniors, staff and friends I could reach the point where I am today. A confident and happy woman is what describes me at this junction.

On this day when we all celebrate the essence of Womanhood, I would like to applaud all the woman who have strived rigorously and pushed their limits hard to make the things better.

-Ms. Poonam Nirmal



**Ms. Poonam Nirmal,  
Lab Assistant,  
Environment Engineering Lab.**



**Ms. Rachita Srivastava,  
President,  
ICE Student Chapter,  
Department of Civil Engineering**

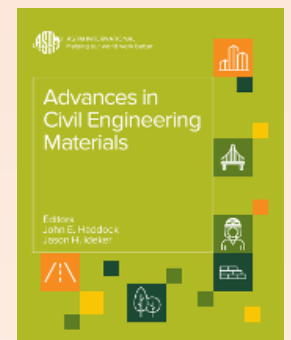
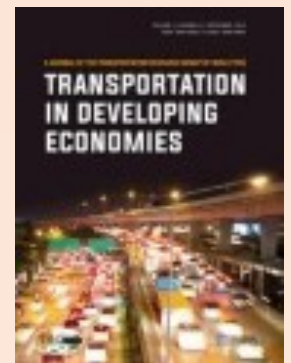
In today's time **there is no department where a woman isn't seen working**, from being a home-maker to leading the navy, flying a fighter plane or managing a whole business by her own. As being a student of PDEU, I also got a huge opportunity to lead the student chapter, Institution of Civil Engineers as president. The institute always sets an example to motivate the best student to excel and get the exposure in various interesting fields irrespective of the gender. I am happy to be a part of this institute where the talent is always appreciated and always encouraged to grow more and provide a friendly environment without any discrimination.

- Ms. Rachita Srivastava



## FACULTY ZONE: PUBLICATIONS/BOOKCHAPTERS

Sr. No.	Title of Publication	Authors	Journal Name
1	"Comparative Evaluation of Aggregate Surface Energy Using Sessile Drop and Dynamic Vapor Sorption Methods and Its Effect on Aggregate–Bitumen Compatibility."	Vinamra Mishra, <b>Ayyanna Habal</b> , and Dharamveer Singh	Transportation in Developing Economies
2	"Effectiveness of Hydrated Lime Filler on Fracture and Cracking Properties of Polymer and Crumb Rubber–Modified Asphalt Mastics"	Dharamveer Singh, Aditya Kumar Das, <b>Ayyanna Habal</b> , and Shreyanshu Bhonsle	Advances in Civil Engineering Materials (ACEM)
3	Deterministic Seismic Hazard Analysis of Ankleshwar City, Gujarat	Manali Patel, Chandresh Solanki, <b>Tejas Thaker</b>	Advances in Sustainable Construction and Resource Management
4	Automatic Land Cover Classification of Multi-Resolution Dualpol Data using Convolutional Neural Network (CNN)	Nimrabanu Memon, Hemani Parikh, Samir B.Patel <b>Dhruvesh Patel</b> Vibha D.Patel	Remote Sensing applications: Society and Environment.
5	Experimental evaluation of bond behaviour in controlled, binary and quaternary concretes developed using SCMs	<b>Dr. Niragi Dave</b> , Dr. Ramesh Guduru, Dr. Anil Kumar Misra and Dr. Anil Sharma	Journal of Engineering, Design and Technology

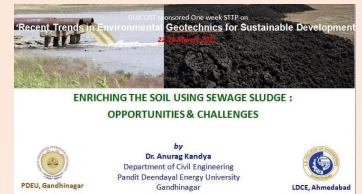


## FACULTY ZONE: GUEST LECTURES DELIVERED

**Dr. Ayyanna Habal** delivered an expert talk on "Overlay Design for Flexible Pavement - Recent Practices" AICTE-ISTE approved Refresher Program (Series-II) on "Recent Practices in Design and Construction of Flexible and Rigid Pavements", organized by Poojya Doddappa Appa College of Engineering, Kalaburagi, Karnataka from 18th March to 23rd March 2021.

**Dr. Ayyanna Habal** delivered an expert talk on "Cold Recycling Technique" AICTE-ISTE approved Refresher Program (Series-II) on "Recent Practices in Design and Construction of Flexible and Rigid Pavements", organized by Poojya Doddappa Appa College of Engineering, Kalaburagi, Karnataka, 18th – 23rd March 2021.

Dr. Anurag Kandya deliver a talk in the GUJCOST sponsored 1 week STTP on 'Recent Trends in Environmental Geotechnics for Sustainable Development'. He delivered the talk on 'Enriching Soil using Sewage Sludge : Opportunities and Challenges' on 24th March 2021 at LD Engineering college, Ahmedabad.



## FACULTY ZONE: PROJECTS/CONSULTANCY

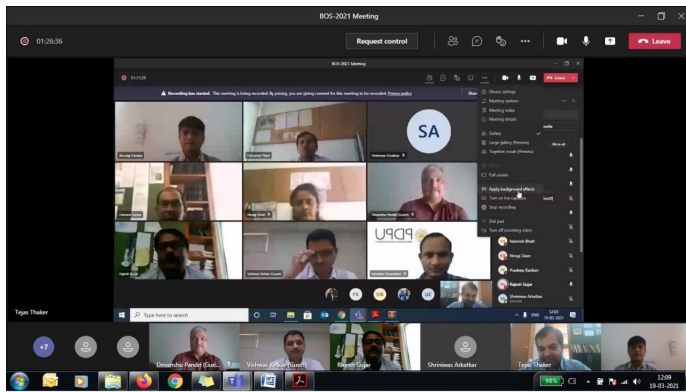
No.	Title of Project	Sponsoring Organization	Name of PI / Mentor	Status
1	Moving towards Organic Manure using gamma irradiated sewage sludge	Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy, Govt. of India	Dr. Anurag Kandya	Ongoing
2	Urban Air Quality Modelling using Remote Sensing and Geographic Information Systems	Studies on Harnessing Remote Sensing for Environment and Climate (SHRESTI) Research Program, Indian Space Research Organization (ISRO), Ahmedabad	Dr. Anurag Kandya	Ongoing
3	Modelling the impact of ground water quality on agricultural productivity with mitigative framework	Council of Scientific and Industrial Research (CSIR) under Direct SRF Scheme	Dr. Anurag Kandya	Ongoing
4	Flood Damage Assessment of Dhanera City of Banaskantha District Using Geo-Spatial Techniques and Hydrodynamic Flood Inundation Modeling	Studies on Satellite-Based River Hydrological Techniques and Applications (SARITA) Research Program, Indian Space Research Organization (ISRO), Ahmedabad	Dr. Dhruvesh Patel	Ongoing
5	Understanding odor from landfill site using source apportionment and dispersion modeling	GUJARAT COUNCIL OF SCIENCE AND TECHNOLOGY (GUJCOST) - SHODH	Dr. Dayashankar Kaul	Ongoing
6	Treatment of Ammoniacal Nitrogen from Industrial Wastewater in a Combine Electrochemical and biological process	Department of Science and Technology (DST)- Women Science Scheme-A (WOS-A)	Dr. Dayashankar Kaul	Ongoing
7	Use of biochar and biomass amended clays in green spaces	SERB Start up Research grant	Dr. Uma Chaduvula	Submitted

## FACULTY ZONE: AWARDS-RECOGNITIONS

**Dr. Lavish Pamwani** received Professional Membership with Lifetime validity from Institute of Scholars with Id Number: InSc20210095 on 15th March 2021.

**Dr. Lavish Pamwani** was recognised as reviewer for International Journal of Civil Engineering on 15th March 2021.

**Dr. Lavish Pamwani** received young researcher award for the paper entitled “Damage Quantification in Moment Resisting frame using Phase space reconstructed from Independent Component Sources” on 15th March 2021.



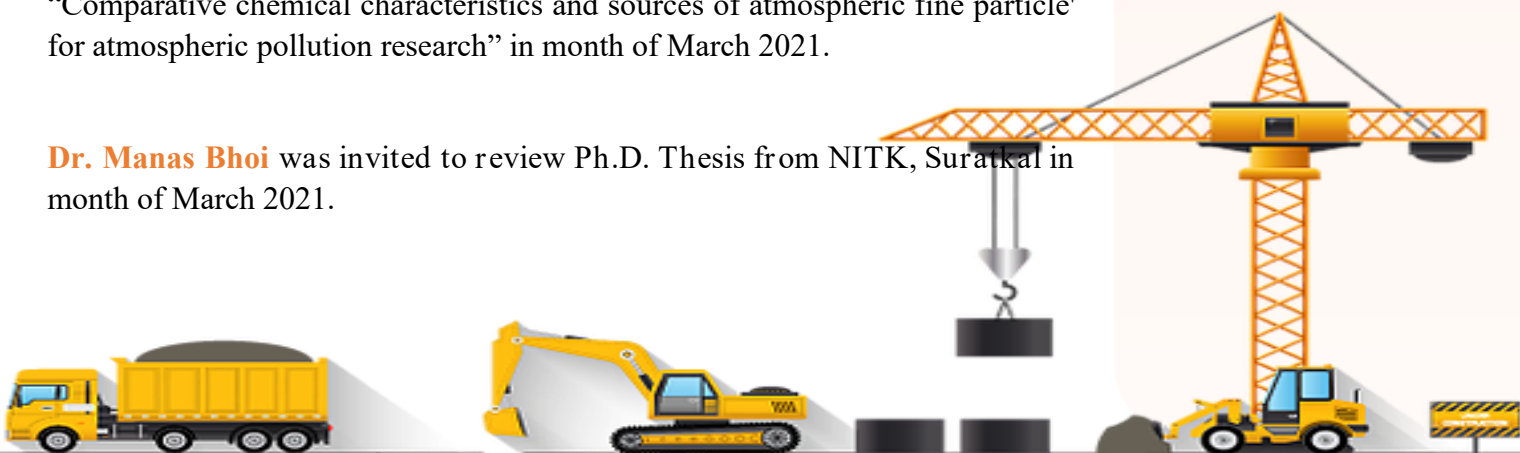
The Department of Civil Engineering successfully conducted the Board of Studies Meeting on 19th March 2021 under the chairmanship of **Dr. Tejas Thaker**.

**Dr. Debasis Sarkar** was recognised as reviewer for Paper entitled “Application of AD and DSM for Early Identification of Changes in DSM” in month of March 2021.

**Dr. Uma Chaduvula** was recognised as reviewer for the following papers for Indian Geotechnical Journal, “Effect of temperature on hysteretic behaviour of water retention capacity for clay-sand liners”, Manuscript number: IGTJ-D-20-00236R1 in Month of March 2021.

**Dr. Daya Shankar Kaul** was recognised as reviewer for the paper entitled “Comparative chemical characteristics and sources of atmospheric fine particle’ for atmospheric pollution research” in month of March 2021.

**Dr. Manas Bhoi** was invited to review Ph.D. Thesis from NITK, Surathkal in month of March 2021.





## FACULTY ZONE: RESEARCH GRANT

**Dr. Niragi Dave** received project research grant of Rs. 24.71 Lakh from GUJCOST.



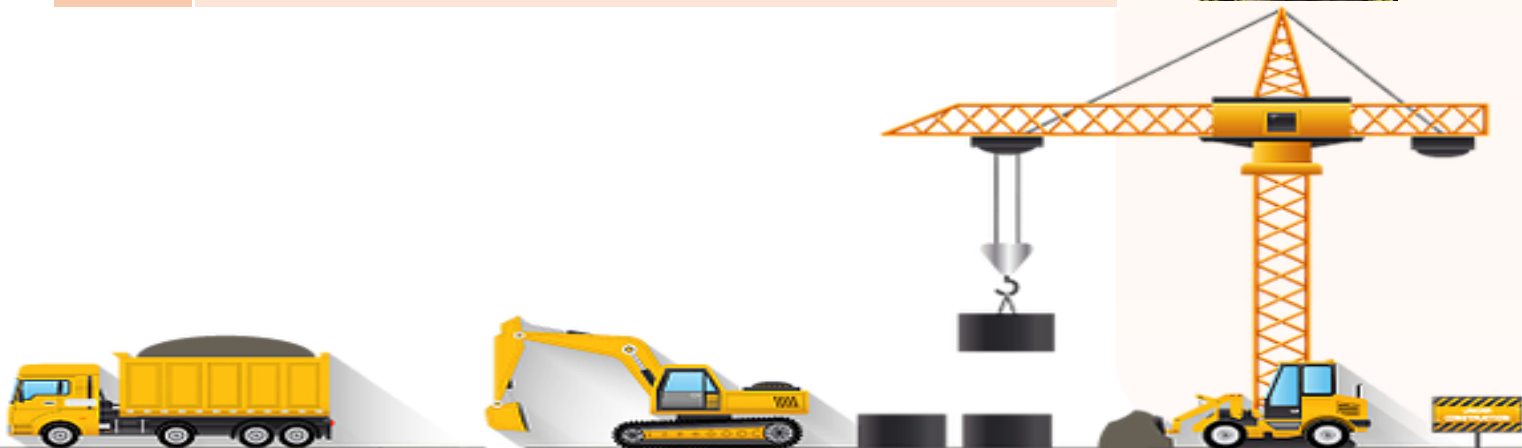
## FACULTY ZONE: PATENTS

Sr. No.	Name of Invention	Faculty Name	Application Number	Date and Month
1	Soil Strength Improvements Using Geocells Reinforced With Vertical Inserts	Dr. Uma Chaduvula	Granted with Design no: 338361-001	Journal Date 12th March 2021
2	Precast Hollow Core Slab	Dr. Pradeep Kankeri	Granted with Design no: 338212-002	March 2021

## FACULTY ZONE: VISITING FACULTY

Following Visiting Faculties were appointed by Department of Civil Engineering from March 2021:

Sr. no.	Particulars
1	<b>Dr. Jigar Pandya</b> Ph.D in Real Estate Industrial Experience : 18 years Academic Experience: 32 years
2	<b>Mr. Jay soni</b> Ph.D in Transportation Engineering (Pursuing) Teaching Experience: 56+ Years Former Professor (CEPT University)



# DEPARTMENTAL EVENTS

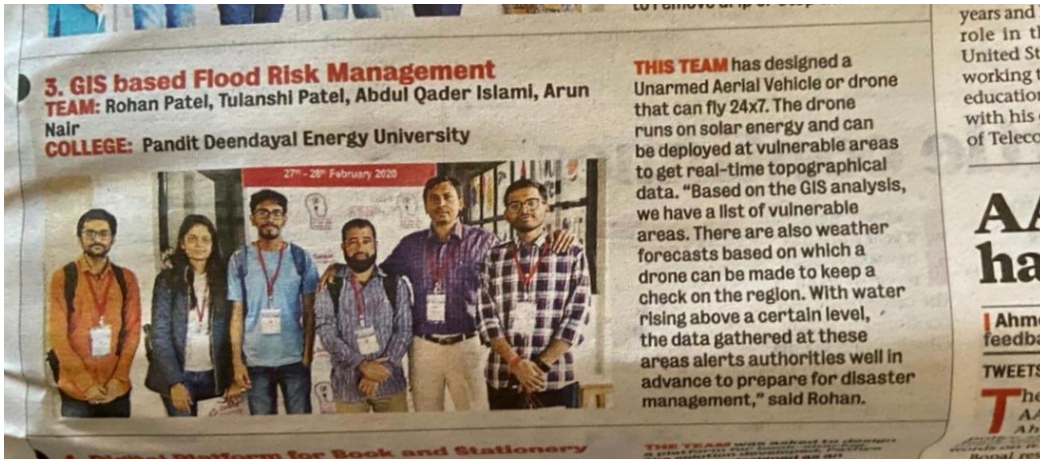
Sr. No.	Date	Event Name	Expert Details	Coordinator	No. of Participants
1	2nd March 2021	Expert Lecture on “Just like Pollution Under Control (PUC), should be also have law on noise control like Noise Under Control (NUC)”	Mr. Satyen Engineer, Founder, YHONK	Dr. Daya Shankar Kaul	20+
2	22nd March to 24th March 2021	Workshop on Advanced Modelling techniques for water resources Management/Engineering	Dr. R.P Singh, ISRO Dr. S.M. Yadav, Asst. Prof, SVNIT Dr. Dipak Samal, Asst Prof., CEPT	Dr. Dhruvesh Patel and Dr. Ankit Deshmukh	30+
3	26th March 2021	National Symposium on Advanced Construction Technology and Management	Prof. K. N. Jha, Professor, IIT Delhi Dr. Dilip Patel , Assoc Professor, SVNIT Mr. Rishish Jha Senior Project Manager, IL&FS Mr N. Ranganath MD, EI Technologies Dr. Devanshu Pandit Adjunct Professor, CEPT University Dr. Tejas Thaker, Head , PDEU	Dr. Debasis Sarkar	120

## DEPARTMENTAL ZONE: GUEST VISIT

**Mr. Ronak Motiani** invited **Mr. Uditya Verma** for Guest visit to PDEU on 09th March 2021. Mr. Uditya Verma is working as professional expert in Mortgage department of ICICI Bank.

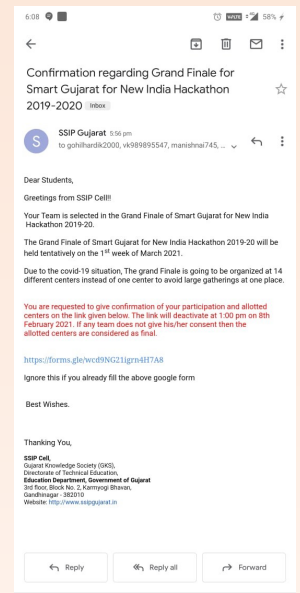


# STUDENT ZONE: ACHIEVEMENT



Students of Civil Engineering Department :- **Mr. Rohan Patel, Ms. Tulanshi Patel, Mr. Abdul Qader Islami** and **Mr. Arun Nair** under guidance of **Dr. Dhruvesh Patel** designed Unarmed Aerial Vehicle that can fly 24x7 with the help of Solar Energy which can be deployed at vulnerable areas.

Students of Civil Engineering Department:- **Mr. Nisarg Patel, Mr. Jay Brahmhatt** and **Ms. Mansi Koshti** under the guidance of **Dr. Niragi Dave** selected for Grand Finale round of New India Hackathon 2019-20 organised by SSIP Gujarat.



# NEWS OUTSIDE THE CAMPUS

## IMPORTANT DATES

**03rd  
March**

World  
Wildlife Day

**19th  
March**

World Sleep  
Day

**20th March**

International  
day of  
Happiness

**21st March**

World  
Forestry Day

**22nd March**

World Water  
Day

**23rd March**

World  
Meteorological  
Day



# Faculty members @Civil Department



**Dr. Tejas Thaker**  
Head of Department



**Dr. Debasis Sarkar**  
Associate Professor



**Dr. HR Dhananjaya**  
Associate Professor



**Dr. Manas Bhoi**  
Assistant Professor



**Dr. Anurag Kandya**  
Assistant Professor



**Dr. Dhruvesh Patel**  
Associate Professor



**Dr. Dayashankar Kaul**  
Assistant Professor



**Dr. Rajesh Gujar**  
Assistant Professor



**Dr. Uma Chaduvula**  
Assistant Professor



**Dr. Niragi Dave**  
Assistant Professor



**Dr. Pradeep Kankeri**  
Assistant Professor



**Dr. Pranav Peddinti**  
Assistant Professor



**Mr. Ronak Motiani**  
Assistant Professor



**Mr. Vasudheo Chaudhari**  
Assistant Professor



**Mr. Naimish Bhatt**  
Assistant Professor



**Mr. Manivel M**  
Assistant Professor



**Mr. Ankit Deshmukh**  
Assistant Professor

**Dr. Ayyanna Habal**  
Assistant Professor

