

6.3.2 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2023-2024	Mr. Rohit P. Deshmukh	Futuristics Trends & Advances in Civil Engineering	NA	300/-
2023-2024	Ms Pranjali Karhade	Futuristics Trends & Advances in Civil Engineering	NA	300/-
2023-2024	Mr. Nakul Shenode	Futuristics Trends & Advances in Civil Engineering	NA	300/-
2023-2024	Mr. Nakul Shenode	Research paper Publication on EnviroSense Smart Waste System: Revolutionizing Waste Management Through IoT	NA	1250/-
2023-2024	Mr. Nikhil Arun Kale	Ethics and Qualitative Methods in research- A Multidisciplinary Approach	NA	250/-
2023-2024	Mr. Yashraj Chopkar	Ethics and Qualitative Methods in research- A Multidisciplinary Approach	NA	250/-
2023-2024	Mr. Rohit P. Deshmukh	Recent Advancement in Civil Engineering	NA	200/-
2023-2024	Mr. Nakul Shenode	Recent Advancement in Civil Engineering	NA	200/-


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Voucher No.:

Date: 21-12-23

Particulars	Amount
Being Cash paid to Mr. Rohit Deshmukh towards faculty cloisonment program at YCEE, Nagpur	300/-
	/
Total	300/-

In words Rs. Three hundred only

By Cash / Cheque / DD No. Cash

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on

**Futuristic Trends & Advances in
Civil Engineering for Sustainable
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4th Dec'2023 to 9th Dec'2023



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The STTP is open for working Professionals from Engineering Institutions and Industries/ Research Scholars/ Faculty Members and PG Students

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Transaction (GPay/Paytm/PhonePe)

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2. Screenshot of Transaction ID
3. Fill the registration form via google form link& join the whatsapp group.

REGISTRATION LINK:

<https://forms.gle/FJnAxU5PpHba78x6>

The last date for registration: 30th November 2023

For registration and further information,

please contact: Prof. S.G. Kalamkar

Department of Civil Engineering

Email:

sgkalamkar@yce.edu

Mobile: 9970635735

UPI ID: 9970635735@paytm



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ABOUT THE STTP

Sustainable development involves the design of integrated approaches that can address sustainability and waste while ensuring social and economic prosperity at the national or even global level implying a macroeconomic scope. Indeed, the new ecofriendly technologies in civil engineering field are fundamental to attain sustainable development. Among emerging technologies are holistic and integrated approach to environmental protection because it addresses the challenges of sustainable development in all aspects focusing structures, building technology and construction management, civil and geotechnical sector, water resources, industrial techniques and policies and legislations and applies incorporating environmental concerns into designing and delivering the related services.

COURSE OBJECTIVES

The main objective of the course is to discuss the futuristic advances & developments in the field of emerging technologies and sustainable development in civil engineering. The participants can develop and affirm a better understanding of the relevant concepts and new technology based solutions necessary to achieve sustainable development in both medium and large scale civil engineering projects.

Course contents

- Geotechnical Engineering, Urban Transport Planning
- Advanced Concrete Materials, Water Resources Engineering
- Construction Management, Structural Engineering Practices
- Environmental Engineering, Geospatial Technology
- Artificial Intelligence & Machine Learning Applications in civil engineering
- New Testing procedures building material
- Demonstration of Technology, Kaimashwar

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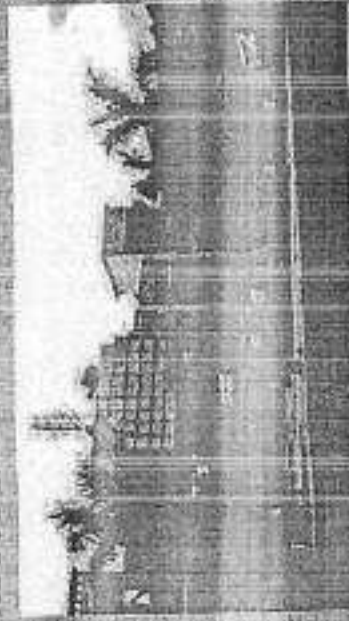
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RESOURCE PERSON

Eminent personalities and experts from industry along with academicians at various institutes as IITs, NITs, and Industry Persons will be involved in comprehensive coverage of various topics and discussions with the participants.

ABOUT THE INSTITUTE



Yashwantrao Chavan College of Engineering (YCCE) established in 1984 by Nagar Yuvak Shiksha Sansitha, Nagpur is one of the most attractive destinations for the potential engineers from central India. It is an autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. For 38 years it has successfully nurtured young engineering professionals and researchers. The institute has given many talented, dedicated and very competitive engineers as per the requirement of the industry and the society. The Institute is located on a lush green hillock to make the teaching learning process enjoyable to the students and teachers alike. With a setup of excellent infrastructure and a well-qualified, experienced and dedicated staff, YCCE is marching head to become one of the premier institute of the region. The institute has well-equipped laboratories, central and departmental libraries. The institute is accredited by NAAC (A++) and almost all programs run by the institute are accredited by NBA.

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Purpose: Paper publication

Description of Amount: Publication Fees

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1	Research paper publication	1	1	1250
	Submission Fees			
Total:-				1250

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EnviroSense Smart Waste System: Revolutionizing Waste Management Through IoT

Nakul Rajesh Shenode¹, Ankita Vijay Rekkawar², Neha Jagdish Kawathe³

¹Civil Engineering, ²Electronics & Telecommunications Engineering, ³Science & Humanities Engineering Department, Swaminarayan Siddhnata Institute of Technology, Nagpur, India

Abstract: The EnviroSense Smart Waste System is a slice-edge system that uses the power of the Internet of Things (IoT) to transfigure traditional trash operation processes. As urbanization accelerates and environmental enterprises grow a smart and effective waste operation system becomes increasingly important. The EnviroSense Smart Waste System tackles these issues by combining ultramodern detectors, networking, and data analytics to make a complete and long-term waste operation system. The system's introductory operation entails the installation of smart detectors into waste lockers and holders, allowing for real-time monitoring of scrap situations and composition. These detectors use IoT connection to shoot data to a centralized platform, where it's reused by advanced analytics algorithms. The technology gives practicable data, allowing original governments, waste operation enterprises, and other associations to make better opinions.

Keywords: EnviroSense, Smart Waste System, Internet of Things (IoT), Data Analytics, Waste Operation

I. INTRODUCTION

The EnviroSense Smart Scrap System is a slice-edge system that uses the power of the Internet of Things (IoT) to transfigure traditional trash operation processes. As urbanization accelerates and environmental enterprises grow a smart and effective waste operation system becomes increasingly important. The EnviroSense Smart Waste System tackles these issues by combining modern sensors, networking, and data analytics to make a complete and long-term waste operation system. The system's introductory operation entails the installation of smart sensors into waste lockers and holders, allowing for real-time monitoring of scrap situations and composition. These sensors use IoT connection to shoot data to a centralized platform, where it's reused by advanced analytics algorithms. The technology gives practicable data, allowing original governments, waste operation enterprises, and other associations to make better opinions. The EnviroSense Smart Waste System underscores its commitment to stoner-friendly operation, making it an important tool for cosmopolises, waste operation realities, and citizens. This emphasis on ease of use not only maximizes relinquishment rates but also contributes to the system's overall effectiveness in transubstantiating waste operation practices.

The EnviroSense Smart Waste System Operation Process:



Fig. The EnviroSense Smart Waste System Operation Process



II. FLAWS IN THE EXISTING SYSTEM:

- 1) Connectivity Issues
- 2) Security Vulnerabilities
- 3) Data Accuracy and Reliability
- 4) Scalability Challenges
- 5) Power Consumption
- 6) Integration with Existing Systems
- 7) User Adoption and Training
- 8) Costs and Return on Investment (ROI)

A bedded system can include any of the following types of attack factors Sensor or other input device. Gathers information from the observable world and converts it to an electrical signal. The type of data gathered depends on the input device. Analog-to-digital motor. Changes an electrical signal from analog to digital. Processor. Processes the digital data the sensor or other input device collects. Memory. Stores specialized software and the digital data the sensor or other input device collects. Digital-to-analog motor. Changes the digital data from the processor into analog data. Chooser. Takes action predicated on the data collected from a sensor or other input device.

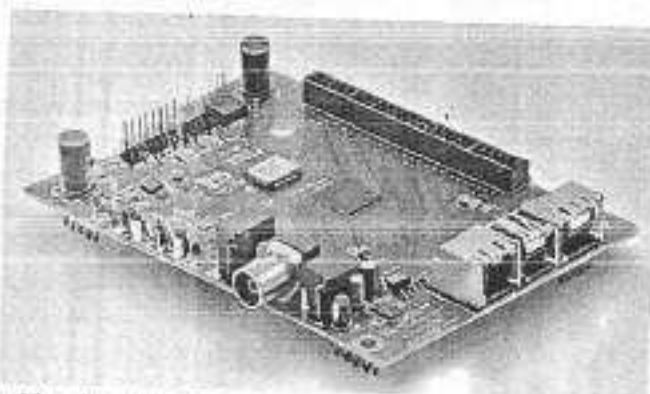


Fig: Assembly adopted in EnviroSense Smart Waste System Operation Process

III. SENSOR'S DATA ESTIMATION

To calculate the empty level and weight of the waste, we have performed a set of experiments concerning time. Table. 4 shows the corresponding experimental data of the ultrasonic sensor and load measurement sensor. In this table, we have focused on how the system is operated in response to time. We have taken five samples, time delay in minutes, individual waste level in cm, empty level in percentage, and a load of the waste in Kg. The two-output data, such as the empty level and weight of the trash, will be sent to the corresponding mobile application of the users.

EnviroSense
Smart
Waste
System





B. Algorithm 2: AHA-KNN Input: Missing dataset D.

Output: Dataset completed.

Processing:

Step 1: A feature label is associated with each datapoint in the dataset. feature = {F1, F2, ..., Fn}.

Step 2:

Preprocess dataset D using Min-Max Normalization according to eq. 20.

Step 3: Initialize the AHA parameters (the population size P, maximum number of iterations Maxiter, n, d, f, Low, Up)

Step 4: h a randomized K-value and determining the fitness function based on accuracy.

Step 5: Calculate each hummingbird position using the fitness function and save in Visit table (VT)

Step 6: Hummingbird positions are updated if they are better than the previous best position.

Step 7: Using the hummingbird's previous best location, find its optimal new location.

Step 8: Relocate the hummingbird to its new feeding location.

Step 9: Repeat from step 4 until the end condition is met or Maxiter is attained.

Step 10: Training the KNN algorithm with an optimized K value produces the value of K- closest neighbors for an input sample.

Step 11: Apply the principle of a majority vote to determine whatever data can be most frequently used.

Step 12: classify a sample test and use the feature's most frequent label.

V. RESULTS

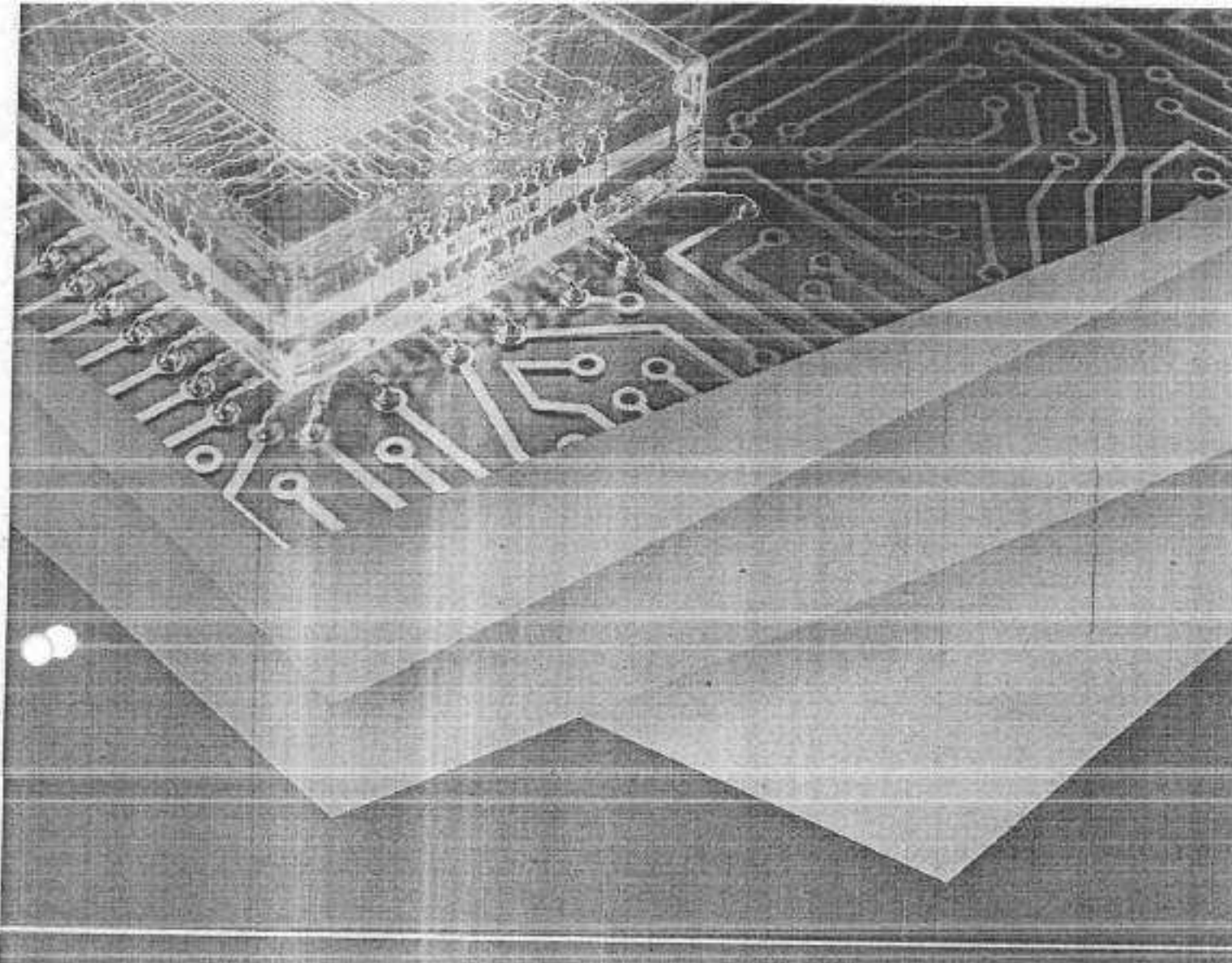
The results from the experiments in this section of the three phases took place and were discussed in the EnviroSense Smart Waste System. All the results are run on the same Mobile, which has the detailed settings shown in the table. All experiments were carried out using an Android application, and the results were extracted and analyzed using it.

Specification name	Specification settings
<i>Software specification</i>	
OS	Mobile (Android App)
Programming language	MATLAB R2019a
<i>Hardware specification</i>	
CPU	Core (TM) i7-4500
Frequency	2.40 GHz
Memory	16 MB
App Size	26 MB

IoT-based intelligent waste management system

VI. CONCLUSION

This paper represents a real-time waste monitoring system utilizing deep learning paradigm and IoT. The research is conducted with a set of the development process to ensure an efficient waste management process. The proposed model has classified into two significant parts. One is the architectural model of waste classification using a raspberry pi and camera module along with the mechanism of deep learning. Another one is the embodiment of IoT based smart trash box utilizing a microcontroller with multiple sensors for real-time waste monitoring. Again, this paper represents the data calculation methodology of proposed CNN model, ultrasonic sensor and load measurement sensor. This article also presents several experimental data analyses to provide the effectiveness of the proposed method. The proposed method has found the waste classification accuracy of 95.3125%. This research is further furnished with the System Usability Scale to check the regular user's satisfaction and found the SUS score of 86%. The first limitation of this work is the model works with only five categories of indigestible waste. Another limitation is utilizing only two sensors in the developed prototype.



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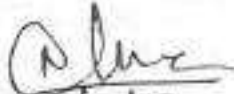
Purpose: for attending FDP seminar

Description of Amount:-

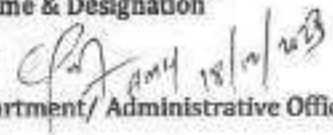
Sr.NO	Description of Work	Rate	Quantity	Amount
1	FDP on ethics & qualitative methods at NIET College.	250/-	1	250/-
① →	Prof. Nikhil A. Kale			
② →	Prof. Yashraj Chopkar	250/-	1	250/-
Total:-				500/-

Total Amount in words:- Five hundred rupees.

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18/12/23

Prof. Nikhil A. Kale
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ABOUT NIETM

Maitrey Educational Society's, Nagpur, Institute of Engineering, Technology & Management (NIETM) is established in the year 2009 & affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. It is kind of institute promoted and managed by a team of well qualified engineers having vast industry experience in diverse fields. Its sprawling campus spread over 12 acres of land situated in the outskirts of Nagpur city is a testimony to the commitment of management to quality education and all-round grooming of students.

The mission of the Institute is committed ourselves to the pursuit of excellence in technical education and promise to uphold the spirit of professionalism to serve humanity. To be the premier institute for promoting the principle of multi-disciplinary engineering. Develop a community of scholars with talent and expertise that will participate in engineering excellence and national development. NIETM is a self-financing co-educational Engineering and Management Institute and it is approved by All India Council for Technical Education (AICTE) & affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. The Institute is accredited by National Assessment and Accreditation Council (NAAC).

ONLINE SCHEDULE

23.12.2023; Day 1: (Session I)
Inauguration: 11:00 AM To 12:30 PM
Lunch Time: 12:00 PM To 01:30 PM

Session II

01:30 To 03:00 PM

Resource Person: Dr. M. S. Ali, Principal, PRMCOE, Badnera-Amravati.

Topic: Navigating Ethical Dilemmas in Qualitative Research: A Guide for Multidisciplinary Scholars.

26.12.2023; Day 2: (Session II) 11:30 AM To 01:00 PM

Resource Person: Mr. Samad Shaikh, CEO, GreenTech, Aurangabad.

Topic: Ethics Unveiled: A Multidisciplinary Exploration of Qualitative Research

(Session III) 02:00 PM To 03:30 PM

Resource Person: Dr. Pradip Jawandhiya, Principal, Pantaj Laladhad Institute of Technology and Management Studies, Buldhana

Topic: Intellectual Property Rights

27.12.2023; Day 3: (Session I) 11:30 AM To 01:00 PM

Resource Person: Dr. Dinesh Harfaut, Professor, PRMCOE, Badnera-Amravati.

Topic: Ethical Considerations in Qualitative Data Collection and Analysis: Best Practices and Pitfalls

(Session II) 02:00 PM To 03:30 PM

Resource Person: Dr. Vivek Namori, Director, PCE, Nagpur.
Topic: Power of Innovation - a design thinking approach.

28.12.2023; Day 4: (Session I) 11:30 AM To 01:00 PM

Resource Person: Dr. Dinesh Rojatkar, Professor, GOCE, Amravati.

Topic: Matlab Programming and its scope (Theory)

(Session II) 02:00 PM To 03:30 PM

Resource Person: Dr. Dinesh Rojatkar, Professor, GOCE, Amravati.

Topic: Matlab Programming and its scope (Practical)

29.12.2023; Day 5: (Session I) 11:30 AM To 01:00 PM

Resource Person: Dr. Anil Mokhadde, Associate Professor, VNIT, Nagpur.

Topic: Ethical Dimensions of Data-Driven Research: A Multidisciplinary Perspective

(Session II) 02:00 PM To 03:30 PM

Resource Person: Dr. Sandeep Talewar, Professor & HoD, Civil Engg., GOCE, Amravati.

Topic: Recent trends in Hydraulic structures.

30.12.2023; Day 5: (Session I) 11:30 AM To 01:00 PM

Resource Person: Dr. Pushpend Jain, VIT, Bhopal

Topic: Approaches towards designing of an ethical product.

(Session II) 02:00 PM To 03:30 PM

Valedictory Function

PROGRAM OUTLINE

To improve the quality of research in any field of enquiry, the domain of knowledge needs to keep up with the times. This is an effort to enrich the Young Faculty, Research scholars and PG students in Science and Technology on Ethics and Qualitative Methods in Research - a system of research approaches, techniques and theoretical frameworks.

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It is expected to cover navigating ethical dilemmas in qualitative research, a multidisciplinary exploration of qualitative research and ethical consideration in qualitative data collection along with the approaches towards the designing of an ethical product and practical session on Matlab Programming and its scope.

Specifically, the participants will be introduced to various qualitative research methods. At the same time, it will offer training on software tools for qualitative research. In the process, the sessions will also touch upon other crucial aspects of research that are often overlooked, namely, publication ethics, misuse of theories and methods, the problem of precatory publications, and academic writing.

PROGRAM OBJECTIVES

- To guide the research process with the necessary knowledge and skills - methods, tools and techniques of qualitative provenance.
- To enable researchers, irrespective of their discipline, to develop an appropriate methodology for their work, with the caveat of avoiding abuses of theories and performing data analysis.
- To engage faculty and early career researchers in discussions of research ethics.

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THE NAGARJUNA INSTITUTE OF ENGINEERING, TECHNOLOGY & MANAGEMENT (NIETM) IS ORGANIZING AN AICTE APPROVED ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAM (FDP) ON

"ETHICS AND QUALITATIVE METHODS IN RESEARCH - A MULTIDISCIPLINARY APPROACH"

UNDER THE IQAC OF NIETM

23rd - 30th DECEMBER 2023

INVITED SPEAKERS



Dr. M. S. Ali, Principal, Prof. Ram Meehe College of Engineering & Management, Amravati



Dr. Vinod Nimoni, Director, Parashakti Institute of Engineering, Nagpur



Dr. Amit Mohasre, Associate Professor, VNIT, Nagpur



Mr. Samad Shaikh, CEO, GreenTech, Amravati



Dr. D. G. Barkin, Professor, Prof. Ram Meehe College of Engineering & Management, Amravati



Dr. Prof. Jawandara, Principal, Pankaj Laddha Institute of Technology and Management Studies, Doldham



Dr. Sandeep Patil, Professor, GCOE, Amravati



Dr. Prashant Jain, Asst. Prof. Senior, VIT, Bhopal



Dr. Dinesh Rosankar, Professor, GCOE, Amravati

ELIGIBILITY

Faculty members, Research Scholars & PG students from AICTE recognized & UGC approved institution can attend.

CERTIFICATE: E-Certificate will be issued to all the participants after the submission of the feedback form and final assessment.

Confirmation email & details schedule will be circulated to the participants on 22.12.2023.

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Registration fee is Rs. 250/- for Faculty, Research Scholars, & PG students from AICTE & UGC approved institutions. The number of participants is not limited. However, the selection is on first come first served basis.

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OBJECTIVES

Faculty with the latest civil engineering knowledge, including new technology and sustainable practices. Participants will use pedagogical tools to integrate new advances into their teaching. Students will have an exciting and current experience. Professors will incorporate new research into their teaching and civil engineering academic programs. Collaborative learning and exchange will foster a supportive community of educators who can discuss

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KEYNOTE SPEAKER

Ms. Prachi Kulkarni, Senior GIS Analyst, AECOM,
Australia.

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and sustainable practices
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ate new advances into their teaching,
students have an exciting and current
experience.
ge professors to incorporate new
into their research to promote
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