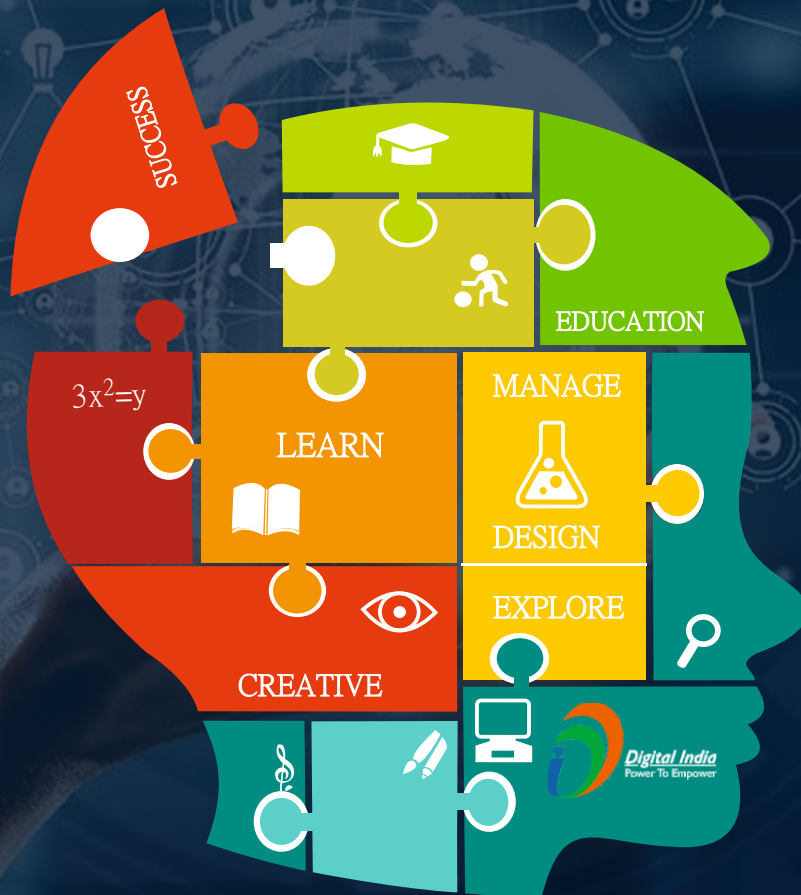


# International Conference on Engineering and Technological Innovation For Sustainable Development (ETISD-2024)

HYBRID MODE

April 26-27, 2024



In Association with

Technical Collaboration with



**PU !NCENT**

INTEGRATED NODAL CENTRE FOR  
ENTREPRENEURSHIP & NOVEL TECHNOLOGIES

Malaviya National Institute  
of Technology, Jaipur

Maulana Azad National Institute  
of Technology, Bhopal

• Centre of Excellence: WATER & CLEAN AIR

• Centre of Excellence: SOLAR ENERGY

Organized by

Faculty of Engineering and Technology



*Your Dreams Our Goal*  
**POORNIMA**  
**UNIVERSITY**

Member of Association of Indian Universities & Approved by UGC (Govt. of India) under 2(f) & 12(B)

IS 2027-31 Ramchandrapura, PO Vidhani Vatika, Sitapura Extension, Jaipur, Rajasthan (India), Pin-code : 303905

Website : [www.poornima.edu.in](http://www.poornima.edu.in)

SAVE WATER

SAVE ENERGY

## ABOUT POORNIMA UNIVERSITY

Poornima University (PU) is a state private University in Jaipur, India established by an act of the Rajasthan legislature. PU was established in 2012 with a vision to create knowledge based society with scientific temper, team spirit and dignity of labour to face global competition and challenges. PU is recognized by University Grants Commission (UGC) under Section 2(f) and 12(B) with the right to confer degrees as per Section 22 (1) of the UGC Act, 1956. Its architecture program is approved by Council of Architecture (CoA) and hotel management program is approved by NCHMCT. Currently, PU has more than 4000 students in eight schools from all over the country enrolled in UG/PG and PhD Programs in various areas such as Management, Engineering, Computer Application Sciences, Architecture, Design, Public Health and Hotel Management etc.

Poornima University has won various National/ International Level awards, Ranking and Recognitions. Few of them are:

- We are extremely glad to inform you that we are recognised by the prestigious Indian Army to sponsor their officers to pursue Post Graduation courses during their study leave.
- MOU signed with Military College of Electrical & Mechanical Engineering (MCEME), Secunderabad, for Academic Collaboration and Research.
- Poornima University is rated as 'Diamond' category in overall rating for Indian Colleges and Universities by QS IGauge.
- Poornima University is ranked one amongst top 63rd Private Universities of our country (Source- IIRF Best University Rankings 2022).
- Faculty of Management & Commerce, Poornima University is rated in AA category in overall rating for All B-Schools of country (Source – CAREERS360 B-School Ranking & Rating, 2022)
- Faculty of Management & Commerce, Poornima University is ranked one among top 23 Private University B School in the country (source – Times B School Ranking Apr 2022)
- Faculty of Management & Commerce, Poornima University is ranked one amongst Top 66 B School in terms of Return on Investment – 'ROI' (Source – Business Today, Special Issue, 14 Nov 2021).
- Faculty of Engineering & Technology, PU is ranked one amongst top 18 Best Private Engineering Institute in the North Zone (Source – Times Engineering Ranking, 29 Jun 2021)
- Faculty of Management & Commerce, PU is ranked one amongst top 66 Best B School in the country (Source – Times B-School Ranking, 26 February 2021)
- PU is ranked one amongst top 47 private universities of our country (Source- The India Today Aug 4 to 10, 2020, Vol No – XLV No - 32)
- Faculty of Computer Science & Engineering (FCE), PU is ranked one amongst top 63 best BCA colleges in the country (Source-The India Today Jul / Aug 2020)
- Outlook India has ranked Faculty of Planning & Architecture, PU as one amongst the Top 7 in Private Institutes of Planning & Architecture in India (Source Outlook – dated 17 Jun 2019).

## ABOUT FACULTY OF ENGINEERING & TECHNOLOGY

The Faculty of Engineering and Technology at Poornima University offers a comprehensive range of programs in the field of engineering, including Bachelor of Technology (B.Tech) degrees in Civil Engineering, Mechanical Engineering, and Electrical & Computer Engineering. The faculty also provides opportunities for higher education through Master of Technology (M.Tech) and Ph.D. programs.

The programs offered by the Faculty of Engineering and Technology are designed to provide students with a strong foundation in their chosen engineering discipline. The programs emphasize both theoretical knowledge and practical skills, ensuring that graduates are well-equipped to meet the challenges of the industry. These programs provide advanced knowledge and research opportunities, enabling students to develop expertise in specific areas.

## ABOUT THE CONFERENCE (ETISD-2024)

The International Conference on Engineering and Technological Innovation for Sustainable Development (ETISD-2024) at Poornima University, Jaipur, is dedicated to the exploration and discussion of pioneering engineering and technological solutions aimed at sustainable development. This conference serves as a vibrant platform for experts, researchers, and practitioners from around the world to convene, share, and collaboratively forge new paths in engineering technology. Our theme emphasizes the critical role of interdisciplinary knowledge and innovation in addressing the complex challenges of sustainability. We aim to foster an environment where cutting-edge research and development activities are showcased, driving the growth of engineering technologies that respond effectively to societal needs. The conference is committed to promoting excellence in scientific knowledge and innovation across the fields of science, engineering, and related disciplines, with a particular focus on motivating young researchers. Through this gathering, ETISD-2024 endeavors to catalyze transformative ideas and solutions that are not only technologically advanced but also environmentally responsible, economically feasible, and socially equitable, thereby contributing significantly to the global pursuit of sustainable development.

### CONFERENCE TRACKS

- Track-1** Renewable Energy Technologies, Power Systems and Sustainability
  - Track-2** Green Building, Innovation in Infrastructure and Sustainable Urban Planning
  - Track-3** Applications of AI and IoT for Sustainable Development
  - Track-4** Innovative Materials and Manufacturing for Sustainability
- Note:** All other relevant topics

### IMPORTANT DATES

Last Date of Abstract Submission	March 01, 2024
Last Date of Paper Submission	March 10, 2024
Acceptance Notification	March 20, 2024
Camera Ready Paper Submission	March 27, 2024
Last Date of Registration	April 05, 2024

## CALL FOR PAPERS

- All the papers should strictly be prepared as per author guidelines standard format.
- The manuscript (Max 10 pages) should be thoroughly checked for grammatical or typographical errors before submission.
- Authors should ensure that the similarity score of their research paper should not above 15 %.
- All the manuscripts should be submitted in template format to Conference Mail ID: [etisd2024@poornima.edu.in](mailto:etisd2024@poornima.edu.in)

## PUBLICATION

All accepted and presented paper will be published in Conference Proceedings with ISBN Number Soft copy of the publication will be provided to the author (s). All the Selected papers will be recommended for publication in Web of Science / SCOPUS Indexed Journals and will be **published on the terms & conditions of the respective journal**. Article processing charges will be paid by authors as per Journal norms.

### PUBLICATION PARTNERS



Scopus®

Clarivate  
Analytics

WEB OF SCIENCE™

ISBN PROCEEDING

### REGISTRATION FEE

A	UG/PG Students	1000/-
B	Research Scholar/ Academician	1500/-
C	Industry Person	2000/-

#### Payment option:

Registration fee can pay online in HDFC Bank

Account No. : 50200024936162

Branch : F129, Riico Industrial Area, Sitapura, Sanaganer, Jaipur-302022, Rajasthan, India

IFSC Code : HDFC0003873

MICR Code : 302240028

Bank Code : 3873

## CHIEF PATRON

**Sh. Shashikant Singhi**

Chairperson, Poornima University

## PATRONS

**Dr. Suresh Chandra Padhy**

President, Poornima University

## ADVISORS

**Dr. Sunil Gupta**

Dean (R & D), Poornima University

**Dr. Manoj Gupta**

Pro-President, Poornima University

**Dr. Chandni Kirpalani**

Registrar, Poornima University

## PROGRAM CHAIR

**Dr. Manoj Gupta**

Pro-President, Poornima University

**Dr. Ankush Kr. Jain**

Dean (FET), Poornima University

## PROGRAM CO-CHAIR

**Dr. Devesh Kumar**

HOD, ME

**Dr. Ashish Raj**

HOD, EEE

## CONVENERS

**Dr. Yashpal**

Associate Prof., ME

**Dr. Deepak Prajapat**

Assistant Prof., Civil

## CO-CONVENERS

**Dr. Bholu Kumar**

Associate Prof., ME

**Dr. Surendra Kumar Sharma**

Associate Prof., EE

**Dr. Ria Majumdar**

Assistant Prof., Civil

SAVE WATER

SAVE ENERGY

## ADVISORY COMMITTEE

- **Kgomotso Bertha Morotolo** Nexus University, South Africa
- **Dr. Vinod Kumar** IIT Indore
- **Dr. Ganesh Balasubramanian** Lehigh University, USA
- **Dr. Vinay Gupta** Khalifa University, Abu Dhabi
- **Dr. R.S. Walia** PEC Chandigarh
- **Dr. Mahender Choudhary** MNIT Jaipur
- **Dr. Saran Aadhar** IIT Jodhpur
- **Dr. P.V. Ramana** MNIT Jaipur
- **Dr. Shivraj Dhaka** President-ASHARE
- **Mr. Anand Mishra** Chair-IGBC
- **Mr. Dharendra Madan** Co-Chair IGBC
- **Dr. Nitin Gupta** MNIT Jaipur
- **Mr. Rajeev Nath Tiwari** SEDL, Mohali
- **Dr. Gaurav Dwivedi** MANIT, Bhopal
- **Dr. C.S. Jawalkar** PEC, Chandigarh
- **Dr. Byungmin Ahn** Ajou University, South Korea
- **Dr. Yogiraj Pardhi** Sulzer, Germany
- **Dr. Arvind Kumar Jha** IIT Patna
- **Dr. Manish Goyal** IIT Indore
- **Dr. M.P. Sharma** RRVPNL, Jaipur
- **Dr. Ramesh Bansal** University of Sharjah
- **Dr. Ray Singh Meena** NIT Hamirpur
- **Dr. Anup Malik** MNIT Jaipur
- **Dr. Amit Chauhan** UIET Chandigarh
- **Dr. Kamal Kishore Khatri** LNMIIT, Jaipur
- **Mr. Ravi Sundram** Cenbras Geotechnia Private Limited
- **Dr. Vivek Agarwal** Greentech Infra Pvt. Ltd.
- **Dr. Bivek Kumar Jha** CEG Testing House
- **Dr. Suman Kant** PEC, Chandigarh
- **Dr. Sanjay Sharma** NITTTR Chandigarh

## PU ORGANIZING COMMITTEE

- **Dr. Neeraj Tiwari** Professor, PU
- **Dr. Deepen Banoriya** Professor, PU
- **Dr. Ajay Pagare** Associate Professor, PU
- **Dr. Sushil Kumar Jain** Associate Professor, PU
- **Dr. Udit Mamodia** Associate Professor, PU
- **Dr. Mukesh Kr. Chowrasia** Associate Professor, PU
- **Dr. Ashwini Kumar** Associate Professor, PU
- **Dr. Sarbari Deb** Associate Professor, PU
- **Mr. Pratish Rawat** Assistant Professor, PU
- **Mr. Mansingh Rathore** Assistant Professor, PU
- **Mr. Pawan Pathak** Assistant Professor, PU
- **Ms. Sheena Khan** Assistant Professor, PU
- **Mr. Akash Panwaar** Assistant Professor, PU
- **Mr. Jitendra Kumar** Assistant Professor, PU
- **Mr. Ajay Singh Thakur** Assistant Professor, PU

## CONTACT PERSON

**Dr. Yashpal**

Associate Professor, ME, PU

☎: +91- 94667 48006

**Dr. Deepak Prajapat**

Assistant Professor, Civil, PU

☎: +91- 8947096493

Email: [etisd2024@poornima.edu.in](mailto:etisd2024@poornima.edu.in)

## HOW TO REACH CONFERENCE VENUE

Jaipur is one zenith of the popular tourism Golden Triangle circuit Agra-Delhi-Jaipur and is well connected to most parts of India by air, train and road. Poornima University is located about 268 km by road & 308 km by train from Delhi. It is situated at the Jaipur, capital of Rajasthan and is encircled by several industries. Jaipur Railway Station and Jaipur Bus Stand are close by and are about 25 km. from the conference venue.

