

A Century of Service to the Nation

Volume 10 | Issue 6 | June 2025

Inside this issue

- 2 Notification
- 3 Members in the News
- 3 40th Indian Engineering Congress
- 4 Publication by Members
- 4 Know-Your-Member (KYM)
- 5 IEI-Springer Journals
- 6 Professional Engineers (PE) Certification by IEI — A Pathway towards Success
- 7 Be Proud to be a Certified International Professional Engineers (IntPE) by IEI
- 8 Discount at the Samsung e-store for IEI Corporate Members
- 8 Corporate Air Ticketing for IEI Members
- 9 Articles Published in Latest Issue of IEI Journals
- 18 Announcement on National Convention
- 19 Nota Bene
- 23 Notification for Advertisement in IEI Epitome
- 24 Continuing Professional Development Programmes of ESCI
- 25 Announcement on International Virtual Conference

DISCLAIMER

The information contained in IEI Epitome has been prepared solely for the purpose of providing information about the members of IEI to interested parties, and is not in any way binding on IEI.

IEI Epitome has been e-compiled in good faith by IEI, but no representation is made or warranty given (either expressed or implied) as to the completeness or accuracy of the information of the contents. You are therefore requested to verify this information with the concerned person/ organization before you act upon it.

President

Er VB Singh

Editor

Maj Gen (Dr) MJS Syali, VSM (Retd)

Secretary & Director General

Special Contribution

Mr S Chakraverty, Dr K Sen, Mr D Nath, Mr S Bagchi, Mr B Mukherjee, Mr P Barik, Ms P Nath,
Ms T Kumar, Mr S K Mishra

Design & Outlay

Ms H Roy

Published by:

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700020

Telephone : 91-33-40106299/248, E-mail : newsletter@ieindia.org, Website : http://www.ieindia.org

IEI
EPI
TOME

Notification

Volume 10 | Issue 6 | June 2025

IEI R&D Grant-in-Aid

To promote appropriate technology, assist in building up design and research talents and, most importantly, to help in nurturing potential R&D venture amongst engineering students pursuing Diploma/UG/PG/PhD courses. The Institution of Engineers (India) had instituted the R&D Grant-in-Aid program way back in 2001.

Every year, the Institution invites applications for funding industry-oriented R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing full time Diploma / UG / PG / PhD engineering program in AICTE / UGC / NAAC approved Institutions / Colleges / Universities. The application form and guidelines are available on our website <https://www.ieindia.org>. The projects should be carried out under the guidance of faculty members who are Corporate Members of IEI. Membership criteria for student(s), guide(s) and institution(s) are as follows:

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory
2. UG (BE/BTech/ Equivalent)	Student Member (SMIE)	AMIE/MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation
3. PG (ME/MTech/ Equivalent)	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation
4. PhD	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation

The soft copy of the duly filled-up applications (in editable format), as per the proforma available on our website www.ieindia.org, should be sent through email to research@ieindia.org and one printed copy of the same should reach the following address:

The Deputy Director (Technical)
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020

Kindly go through the guidelines (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#RnD-Initiative>) before filling up the application.

Members in the News

Volume 10 | Issue 6 | June 2025



Dr Srinivasa Rao Pundru, FIE

Assistant Professor

Mahatma Gandhi Institute of Technology, Hyderabad, Telangana, India

✉ srinupundru@gmail.com

Dr Srinivasa Rao Pundru received the **Certificate of Recognition** for delivering the Keynote Address on the presentation entitled 'Research Fronts - Active Fields - Leading Countries' from C2P Forum at European Congress on Applied Science and Engineering at Paris, France during 24-25 April 2025.

The following esteemed Corporate Members were conferred with the prestigious **Professional Engineer (PE) Certificate** from IEI after successful completion of the assessment process and they have been authorised to use the style and title of **PEng (I)** by virtue of expertise in their field:



Er Wasim Raja, MIE & PE7007707 (Certified Professional Engineer, IEI)

Construction Manager- The Fundament of Installation of Electrical works (First Fix Co.), KSA

Field: Electrical Engineering

✉ wasim.firstfix@gmail.com

Valid from: 22 May 2025

Valid up to: 31 May 2030

contd. to next page



40th Indian Engineering Congress

19-21 December 2025

Venue: National Institute of Technology Durgapur

Theme

Innovative Engineering Solutions for Viksit Bharat @ 2047

Organized by: The Institution of Engineers (India), Durgapur Local Centre

For details please visit: <https://40iec.org/>

Members in the News

Volume 10 | Issue 6 | June 2025

contd. from previous page



Er Bhagwan Prasad, MIE & PE7007723 (Certified Professional Engineer, IEI)
Manager Electrical- Indian Oil Corporation Ltd., Panipat Refinery
Field: Electrical Engineering
✉ amieclub@gmail.com
Valid from: 22 May 2025
Valid up to: 31 May 2030



Er Mallikarjuna Reddy Gajjala, MIE & PE7007731 (Certified Professional Engineer, IEI)
Consultant (Protective Earthing & Lightning Protection) – Siemens Energy, Germany
Field: Electrical Engineering
✉ malli.bits@gmail.com
Valid from: 22 May 2025
Valid up to: 31 May 2030



Er Dhananjay Murlidhar Wagh, AMIE & PE7007693 (Certified Professional Engineer, IEI)
Sr. Manager- Engineering- Nestle India Limited- Chocolate Plant at Ponda, Goa
Field: Electrical Engineering
✉ dhananjay2510@rediffmail.com
Valid from: 22 May 2025
Valid up to: 31 May 2030

Know-Your-Member (KYM)

Is your mobile number and e-mail updated with us? If not, then please forward your Know-Your-Member (KYM) Form.

You are requested to forward your KYM along with the self-attested copy of photo ID proof to the address given below:-

Deputy Director (Membership)
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700020
Email: datamemb@ieindia.org

The form is available on IEI Website
<https://shorturl.at/8Q5tF>

or

scan the code:



Publication by Members

Volume 10 | Issue 6 | June 2025

Book



Prof (Dr) C M Narayanan, MIE

Retired Professor

Department of Chemical Engineering, National Institute of Technology Durgapur, West Bengal

✉ prof.cmn@gmail.com

Biochemical Engineering and Bioreactor Design

About the Book:

A consolidated, but versatile, book that deals with the principles and applications of Biochemical Engineering and details of bioreactor design, starting from the basic fundamentals (Chapter 1) to the most recent advances. Kinetic analysis and development of kinetic equations (models) for various microbial and enzyme-catalyzed processes covered in Chapter 2. Performance analysis and computer aided design of industrial bioreactors starting from conventional stirred tanks and moving bed bioreactors, to packed bed, fluidized bed, semifluidized bed, inverse fluidized bed bioreactors, DSFF and UASB bioreactors dealt in Chapter 3. Versatile mathematical models and development of rigorous software packages (design software) presented in the case of each bioreactor, the specific merits and demerits of each highlighted.

Analysis of medium sterilization systems and processes (both thermal sterilization and those using fibrous filters) dealt in Chapter 4 and typical industrial applications of biotechnology and biochemical engineering, such as manufacture of biodiesels, bioplastics, biofertilisers, biogas, bio-desulfurization & bioleaching processes discussed in Chapter 5, with condensed flow sheet diagrams.

Adequate number of solved numerical examples in each Chapter.

Details:

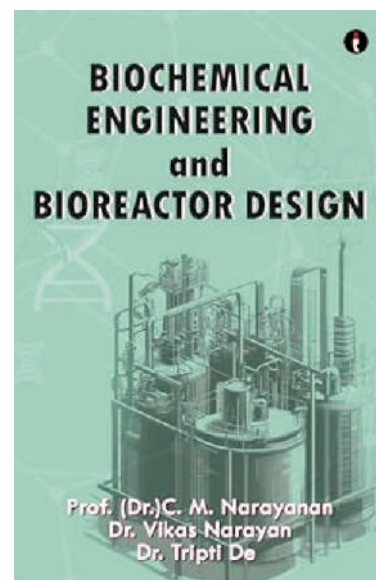
Co-authors : Dr VikasNarayan & Dr Tripti De

ISBN-10 : 9360456012

ISBN-13 : 978-9360456016

Publication Date : 23 April 2025

Publisher : IndiePress, Bangalore



IEI-Springer Journals



ISSN Print 2250-2149
ISSN Electronic 2250-2157

Series A

CiteScore 2023
2.2

Google Scholar: h5 Index 2022
22



ISSN Print 2250-2106
ISSN Electronic 2250-2114

Series B

CiteScore 2023
3.1

Google Scholar: h5 Index 2022
24



ISSN Print 2250-0545
ISSN Electronic 2250-0553

Series C

CiteScore 2023
2.4

Google Scholar: h5 Index 2022
24



ISSN Print 2250-2122
ISSN Electronic 2250-2130

Series D

CiteScore 2023
2.0

Google Scholar: h5 Index 2022
19



ISSN Print 2250-2483
ISSN Electronic 2250-2491

Series E

CiteScore 2023
2.0

Google Scholar: h5 Index 2022
11



All Corporate Members can log into www.ieindia.org to get free e-access of Journal papers

Publication by Members

Volume 10 | Issue 6 | June 2025

Paper published in the Journals / Proceedings



Dr Somnath Mahato, MIE

Project Scientist III

Meteorological Training Institute, Climate Research & Services, Indian Meteorological

Department (IMD), Government of India

✉ somnathmahato1@gmail.com

Title of Paper: Performance Analysis of GLONASS from the Indian Subcontinent

Survey Review, Taylor & Francis, 24 March 2025, Print ISSN: 0039-6265 Online ISSN: 1752-2706

DOI: <https://doi.org/10.1080/00396265.2025.2481718>

Co-authors: Aiswarya S. Pillai, Mrinal Goswami, Surajit Kundu & Bibekananda Panda

Abstract: This study evaluates the performance of GLONASS and its integration with GPS and NavIC in India, using data from six IGS stations in 2023 and 2024. The analysis focused on positional accuracy, satellite geometry, visibility, and service continuity. Results indicate GPS outperforms GLONASS in coverage and accuracy, with a hybrid GPS + GLONASS approach improving precision. Integrating GPS, GLONASS, and NavIC enhanced solution quality, achieving accuracy under 6 m in the south and up to 11 m in the north. These findings provide valuable insights into GNSS performance in civilian and military applications in India.

Keywords: GPS; GLONASS; Navic; IGS; Positional Accuracy; Satellite Geometry

Professional Engineers (PE) Certification by IEI — A Pathway towards Success

Get the **Professional Engineers Certification** by IEI to enhance your knowledge, skill and competency and also elevate your career by becoming a member of an elite group of engineers.

Who can be a Professional Engineer —

- Having Bachelor's Degree in Engineering or equivalent recognized by Statutory Authority or Government of India;
- Having experience of at least 5 years in engineering practice.

Why become a Professional Engineer (PE) —

- Improved career prospects and employability;
- Makes you suitable to attain higher levels of authority and responsibility;
- It is envisaged that in future, only a professional engineer would be empowered to prepare, sign, seal and submit engineering plans and drawings to a public authority for approval, or to seal engineering work for public and private clients;
- With growing economy and large scale expansion of infrastructure, the demand of PE certified engineers is expected to be much higher.

How to apply for Professional Engineers?

The details are available on IEI Website

<https://shorturl.at/mRIYu>

or

scan the code



For any query and assistance, please send email to: pe@ieindia.org or contact (033) 40106275

Publication by Members

Volume 10 | Issue 6 | June 2025



Er Dattu Balu Ghane, MIE

Lecturer

Department of Mechanical Engineering, Government Polytechnic, Awasari (Khurd), Pune, Maharashtra

✉ dattu.ghane@gmail.com

Title of Paper: Comprehensive Analysis of Blade Design Parameters and Its Influence on Performance of Micro Wind Turbine

Journal of Mines, Metals and Fuels, Informatics Publishing Limited and Books & Journals Private Limited, 73(5), May 2025, pp 1287-1292, Print ISSN: 0022-2755

DOI: <https://doi.org/10.18311/jmmf/2025/48679>

Co-author: Vishnu Wakchaure

Abstract: Micro-wind turbines are crucial elements of distributed energy systems, especially in areas with moderate wind velocities. Their efficacy is significantly influenced by the aerodynamic and structural configuration of the blades. This paper presents a thorough analysis of the principal blade design parameters namely chord length, twist angle, airfoil selection, blade count, and solidity and their impact on turbine performance. Analytical equations are derived using the Blade Element Momentum (BEM) theory to model the influence of these parameters on performance metrics such as the power coefficient, starting torque, and cut-in speed. Computational fluid dynamics (CFD) simulations augment the theoretical analysis. This study enhances the design optimization of micro-wind turbines, providing actionable insights for future advancements.

Major Findings: The results indicate that optimizing chord length and twist angle markedly improves energy capture and startup performance, while suitable airfoil selection guarantees operational efficiency at low Reynolds numbers.

Keywords: Micro Wind Turbine; Blade Design Parameter; Drag Force; Lift Force; Power Output

Be Proud to be a Certified International Professional Engineers (IntPE) by IEI

Who can apply for International Professional Engineers?

Basic Requirements for certification as International Professional Engineer

- ⊙ Bachelor's Degree in Engineering or equivalent recognised by Statutory Authority or Government of India;
- ⊙ Experience of 7 years in engineering practice. Out of 7 years of experience 2 years in a responsible position of significant engineering activity.

How to apply for International Professional Engineers?

For details
please visit the link:
<https://shorturl.at/j36fo>
or
scan the code →



Why become an International Professional Engineer??

International Professional Engineer (Int.PE) Certification enables engineering professionals to advance their career aspiration in wide ranging ways.

- ⊙ The International Professional Engineers, registered with IEI, may receive credit when seeking registration or licensure in the jurisdiction of another member i.e this will facilitate an engineer in mobility across member jurisdictions;
- ⊙ Empowered by International Professional Engineers Agreement (IPEA), IEI maintains the register of the International Professional Engineers (IntPE) in India;
- ⊙ Enhances an engineering professional's stature and gives confidence to employer/prospective employer about competency of Certified Engineer;
- ⊙ IntPE Certificate facilitates an engineer in Professional Mobility.

For any query and assistance, please send email to: pe@ieindia.org or contact (033) 40106220

Publication by Members

Volume 10 | Issue 6 | June 2025



Er M Ravi, MIE

Assistant Executive Engineer

Water Resources Department, Mining and Monitoring Sub Division, Madurai, Tamil Nadu

✉ ravim8@rediffmail.com; ravim9040.sse@saveetha.com

Title of Paper: Groundwater Quality Assessment in Madurai North Taluk: Seasonal Variations and Impacts on Drinking and Irrigation Water

Journal of Environmental Studies, 38(1), June 2025, pp 34-50, ISSN-O: 2682-3942, ISSN-P: 2314-5579

DOI: <https://doi.org/10.21608/jesj.2025.365347.1116>

Co-authors: Dinesh Kumar M, Tholkapiyan M & Venkatraman V

Abstract: Groundwater has been the primary source for drinking and irrigation in Madurai North Taluk for several decades. This study evaluates its quality over a 15-year period (2008–2022) to determine its suitability for these purposes. Groundwater samples were collected from 22 locations during both pre-monsoon and post-monsoon seasons. The Water Quality Index (WQI) analysis indicates that groundwater quality ranges from poor to unsuitable for drinking, with significant seasonal variations. Elevated levels of Electrical Conductivity (EC), chloride, sodium, and calcium in both seasons suggest progressive water quality deterioration, primarily due to rock-water interactions involving gypsum and salt-bearing formations. For irrigation suitability, key parameters such as Kelly's Ratio (KR), Magnesium Hazard (MH), Potential Salinity (PS), Permeability Index (PI), and Corrosivity Ratio (CR) were assessed. The findings indicate that most groundwater samples are unsuitable for irrigation due to high salinity, increased magnesium content, and low permeability. Post-monsoon samples generally exhibited improved quality for both drinking and irrigation compared to pre-monsoon samples. Hydrochemical analysis, including the Durov diagram, identified ion exchange and mineral dissolution as dominant processes affecting groundwater composition. Statistical correlation analysis over the study period revealed strong positive relationships among salinity indicators such as chloride, sodium, sulphate, and EC, indicating a common source of contamination.

Keywords: Water Quality Index; Magnesium Hazard; Kelly's Ratio; Potential Salinity; Permeability Index; Corrosivity Ratio; Hydrochemical Analysis

Discount at the Samsung e-store for IEI Corporate Members

Exclusive access to the Samsung e-store for IEI Corporate Members. This shall enable the Corporate Members to procure the Samsung Products at a discounted rate. The Samsung e-store can be accessed at www.samsung.com/in/multistore/iei using your Membership No. and email id / Mobile number.

Corporate Air Ticketing for IEI Members

Corporate Members may book Corporate Air Ticket through M/s EBIX Travels Private Ltd.

For details please visit: <https://www.ieindia.org/webui/IEI-AirTickets.html>

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 6 | June 2025



Journal of The Institution of Engineers (India): Series A

|Agriculture, Architecture, Civil & Environmental Engineering|

(Electronic ISSN: 2250-2157; Print ISSN: 2250-2149)

[CiteScore: 2.2; h5 Index: 22]

[SCOPUS Indexed]

For download, use Membership ID through: www.ieindia.org

Volume 106, Issue 2, June 2025

- Title:** **Optimization of Fermentation Time, Temperature, and Tea Bed Thickness in CFM to Enhance the Biological Composition of CTC Black Tea**
- Authors:** **Azmirul Hoque, Mrutyunjay Padhiary, Gajendra Prasad & Ajita Tiwari**
Department of Agricultural Engineering, Triguna Sen School of Technology, Assam University, Silchar, Assam, 788011, India
- DOI:** <https://doi.org/10.1007/s40030-024-00853-x>
- Online Publication Date:** 16 November 2024
- Pages:** 305–318
- Title:** **Assessment of Qualitative Performances of Structures in Architecture, Case Studies: Space Frame Structures in Tehran, Iran**
- Authors:** **Sara Sadeghi, Mehdi Mahmoudi Kamelabad, Hamed Kamelnia & Mohammad Hoseinpour Jajarm**
School of Architecture and Urbanism, Art University of Isfahan, Isfahan, 81486-33661, Iran
Department of Architecture, Faculty of Architecture and Urbanism, Ferdowsi University of Mashhad, Mashhad, 91779-48944, Iran
Jahad Daneshgahi Institute, Mashhad, 91775-1376, Iran
- DOI:** <https://doi.org/10.1007/s40030-024-00858-6>
- Online Publication Date:** 14 December 2024
- Page:** 319–328
- Title:** **Comprehensive Seismic Analysis and Design Strategies for Enhanced Building Resilience: A Comparative Study of Regular and Irregular Structures**
- Authors:** **Dhritiman Talukdar, Mrinal Kanti Sen & Supran Chakravarty**
Public Work Department, Government of Assam, Guwahati, 781001, India
Assam Don Bosco University, Azara, Guwahati, 781017, India
- DOI:** <https://doi.org/10.1007/s40030-024-00861-x>
- Online Publication Date:** 21 December 2024
- Page:** 329–345
- Title:** **Assessing Structural Performance: A Combined Qualitative and Quantitative Approaches Using Multi-Criteria Decision-Making Method**
- Authors:** **Sara Sadeghi, Mehdi Mahmoudi Kamelabad & Hamed Kamelnia**
School of Architecture and Urbanism, Art University of Isfahan, Isfahan, 81486-33661, Iran
Department of Architecture, Faculty of Architecture and Urbanism, Ferdowsi University of Mashhad, Mashhad, 91779-48944, Iran
- DOI:** <https://doi.org/10.1007/s40030-024-00862-w>
- Online Publication Date:** 27 December 2024
- Pages:** 347–356
- Title:** **Mitigating Urban Traffic Congestion Through OPSAM in Delhi: A YOLO-v4 Based Parking Guidance and Information System**

Articles Published in Latest Issue of IET Journals

Volume 10 | Issue 6 | June 2025

- Authors: **Abdul Ahad & Farhan Ahmad Kidwai**
Department of Civil Engineering, Jamia Millia Islamia, New Delhi, 110025, India
- DOI: <https://doi.org/10.1007/s40030-024-00860-y>
- Online Publication Date: 03 January 2025
- Pages: 357–372
- Title: **Design and Development of IoT Smart Drip Irrigation and Fertigation Prototype for Small and Medium Scale Farmers. A Case Study of Tomato Farmers in Tanzania**
- Authors: **Daniel H. Ngoma, Dickson Nkongo, Humoud M. Abdul-Rahman, Baraka H. Muna, Aneth P. Buberwa, Edison Ngaiza & Herb Rhee**
Arusha Technical College (ATC), Arusha, Tanzania
Seoul National University (SNU), Seoul, South Korea
Innovative Technology and Energy Center (iTEC), Arusha, Tanzania
- DOI: <https://doi.org/10.1007/s40030-024-00857-7>
- Online Publication Date: 09 January 2025
- Pages: 373–395
- Title: **Challenges and Opportunities in Heritage Conservation and Tourism Development: A Case Study of Jagdishpur (Formerly Islamnagar), Madhya Pradesh, India**
- Author: **Vishal Chetty**
Department of Architecture, Planning & Design, IIT(BHU) Varanasi, Varanasi, Uttar Pradesh, 221005, India
- DOI: <https://doi.org/10.1007/s40030-025-00871-3>
- Online Publication Date: 30 January 2025
- Pages: 397–407
- Title: **An Experimental Assessment of Piled Raft Foundation Under Axial and Eccentric Loading in the Scenario of Granular Soil Conditions**
- Authors: **Mohd Aaqib & Mohd Yousuf Shah**
Department of Civil Engineering, NIT-Srinagar, Srinagar, J&K, India
- DOI: <https://doi.org/10.1007/s40030-025-00874-0>
- Online Publication Date: 05 February 2025
- Pages: 409–423
- Title: **Multi-indexing Approach for Groundwater Suitability Near a Municipal Solid Waste Dumpsite for Drinking and Irrigation Purposes**
- Authors: **Abhishek Dixit & Deepesh Singh**
Chandigarh University, Unnao, Uttar Pradesh, India
Harcourt Butler Technical University, Kanpur, Uttar Pradesh, India
- DOI: <https://doi.org/10.1007/s40030-025-00870-4>
- Online Publication Date: 06 February 2025
- Pages: 425–443
- Title: **Theoretical Method of Computing Resilient Modulus of Subgrade**
- Authors: **Binanda K. Narzary & Jayshri Narzary**
Department of Civil Engineering, Tezpur University, Tezpur, India
Department of Physics, Bijni College, Bijni, India
- DOI: <https://doi.org/10.1007/s40030-025-00872-2>
- Online Publication Date: 15 February 2025
- Pages: 445–453
- Title: **Environmental Sustainability Assessment of Urban Development Indicators**
- Authors: **Sahar Hamed Shamaee, Hossein Yousefi & Rahim Zahedi**
Department of Renewable Energies and Environmental Engineering, University of Tehran (UT), North

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 6 | June 2025

- DOI: Karegar, Tehran, 16846-13114, Iran
<https://doi.org/10.1007/s40030-025-00876-y>
Online Publication Date: 15 February 2025
Pages: 455–467
Title: **Evaluating the Safety of Spillway Structures in Concrete Gravity Dams: A Comprehensive Risk Analysis Under Diverse Loads**
Authors: **Parth A. Anajwala, Atul K. Desai & Jayantilal N. Patel**
Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat, India
- DOI: <https://doi.org/10.1007/s40030-025-00875-z>
Online Publication Date: 17 February 2025
Pages: 469–488
Title: **Prediction of Pavement Maintenance Cost for Rural Roads at Network Level**
Authors: **V. Arun & S. N. Suresha**
Department of Civil Engineering, National Institute of Technology, Karnataka, Surathkal, Mangalore, Karnataka, 575025, India
- DOI: <https://doi.org/10.1007/s40030-025-00873-1>
Online Publication Date: 28 February 2025
Pages: 489–509
Title: **An Assessment of the Appropriateness of a Gradient Damage Plasticity Model to Accurately Predict the Behaviour of Composite Beam-to-column Junctions**
Authors: **Megha Thilak & S. R. Satish Kumar**
Indian Institute of Technology Madras, Chennai, Tamil Nadu, 600036, India
- DOI: <https://doi.org/10.1007/s40030-025-00877-x>
Online Publication Date: 01 March 2025
Pages: 511–530
Title: **Exploring Noise Pollution Levels Across Various Land Use Categories and Evaluating the Effects of COVID-19 Lockdown and Unlockdown Phases on the Urban Soundscape of Delhi**
Authors: **Lakshmi Pradeep & S. M. Shiva Nagendra**
Department of Civil Engineering, Indian Institute of Technology Madras, Chennai, 600036, India
- DOI: <https://doi.org/10.1007/s40030-025-00879-9>
Online Publication Date: 01 March 2025
Pages: 531–551
Title: **Engineering Properties of Various Seeds for Development of a Multi Crop Seed Metering Mechanism Suitable for Intercropping**
Authors: **Swapnil Choudhary, Mukesh Jain, Ganesh Upadhyay, Vijaya Rani, Bharat Patel & Naresh**
Department of Farm Machinery and Power Engineering, College of Agricultural Engineering and Technology, CCS Haryana Agricultural University, Hisar, Haryana, 125004, India
Northern Region Farm Machinery Training and Testing Institute, Hisar, Haryana, 125004, India
- DOI: <https://doi.org/10.1007/s40030-025-00878-w>
Online Publication Date: 03 March 2025
Pages: 553–566
Title: **Activated Charcoal and Natural Soil Granules for Removing Fluoride from Aqueous Solution and Groundwater**
Authors: **Madhumati S. Dhaduti, Anand M. Hunashyal, S. K. Rajappa, Sharanappagouda Kadabinakatti & Siddalingappa S. Hubballi**
Department of Civil Engineering, K L E Institute of Technology, Hubballi, Karnataka, 580027, India
School of Civil Engineering, K L E Technological University, Hubballi, Karnataka, 580030, India
Department of Chemistry, Karnatak Science College, Dharwad, Karnataka, 580001, India

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 6 | June 2025

Department of Civil Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, 576104, India

Department of Civil Engineering, Government Engineering College Karwar, Karwar, Karnataka, 581345, India

DOI: <https://doi.org/10.1007/s40030-025-00880-2>

Online Publication Date: 04 March 2025

Pages: 567–575

Title: **Predicting Urban Vartur Lake Health: A Multi-context Machine Learning Approach to Water Quality Assessment**

Authors: **Pralhad P. Teggi, Bharathi Malakreddy, Santhi Natarajan, Madhumati S. Dhaduti & N. Harivinod**

Department of Computer Science, BMSIT&M, Visvesvaraya Technological University, Belagavi, Karnataka, 590018, India

Department of Computer Science, Shiv Nadar University, Chennai, Tamil Nadu, 603110, India

Department of Civil Engineering, K.L.E. Institute of Technology, Hubballi, Karnataka, 580031, India

Department of Computer Science, St Joseph Engineering College, Mangaluru, Karnataka, 575028, India

DOI: <https://doi.org/10.1007/s40030-025-00881-1>

Online Publication Date: 04 March 2025

Pages: 577–590

Title: **Innovative Seismic Resilience of High-Rise Structures Featuring Composite Columns and Shear Walls on Sloping Ground**

Authors: **Rinki Verma, Krishna Kant Pathak, Virendra Pathak & Ravinder Agrahari**

Department of Civil Engineering, Institute of Engineering and Technology Lucknow, Lucknow, UP, 226021, India

Civil Engineering Department, IIT BHU Varanasi, Varanasi, UP, 221005, India

DOI: <https://doi.org/10.1007/s40030-025-00887-9>

Online Publication Date: 20 March 2025

Pages: 591–604

Title: **Effect of Stepped Sidewalls on the Performance of Trapezoidal Labyrinth Weirs and Piano Key Weirs: An Experimental Study**

Authors: **Marzieh Hamidinia, Mohammad Heidarnejad, Mohammad Hossein Purmohammadi & Alireza Masjedi**

Department of Water Science Engineering, Khouzestan Science and Research Branch, Islamic Azad University, Ahvaz, Iran

Department of Water Science Engineering, Ahv.C., Islamic Azad University, Ahvaz, Iran

Department of Water Science Engineering, Sho.C., Islamic Azad University, Shoushtar, Iran

DOI: <https://doi.org/10.1007/s40030-025-00882-0>

Online Publication Date: 24 March 2025

Pages: 605–614

Title: **Leveraging PROMETHEE to Map Solutions Approach for Eliminates the Barriers of Women's Professional Advancement in Indian Urban Planning and Urban Development Industries**

Authors: **Lopakumari P. Patel & Chetan R. Patel**

Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, India

DOI: <https://doi.org/10.1007/s40030-025-00885-x>

Online Publication Date: 25 March 2025

Pages: 615–630

Title: **Optimizing Wind Load Performance through Shape Modifications and Corner Configurations in High-Rise Buildings: A Computational Fluid Dynamics Study**

Authors: **Sudhanshu Pandey, Nitesh Kumar Thakur, Paras Nath, Deepak Sharma & Ritu Raj**

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 6 | June 2025

Civil Engineering Department, Delhi Technological University, Delhi, India
DOI: <https://doi.org/10.1007/s40030-025-00884-y>
Online Publication Date: 26 March 2025
Pages: 631–648
Title: **Prediction of Reliability for Water Distribution System Using ANN and Benchmark Table**
Authors: **Suja S. Nair & P. L. Meyyappan**
Department of Civil Engineering, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil, Tamil Nadu, 626126, India
DOI: <https://doi.org/10.1007/s40030-025-00883-z>
Online Publication Date: 29 March 2025
Pages: 649–664



Journal of The Institution of Engineers (India): Series C

|Aerospace, Marine, Mechanical & Production Engineering|
(Electronic ISSN: 2250-0553; Print ISSN: 2250-0545)

[CiteScore: 2.4; h5 Index: 24]

[SCOPUS Indexed]

For download, use Membership ID through: www.ieindia.org

Volume 106, Issue 3, June 2025

Title: **Advancing Wear Resistance and Mechanical Integrity of Al 6063-B4C Composites Through Tailored Friction Stir Processing**
Authors: **Srinivas Banothu, Banoth Mohan & Mukuloth Srinivasnaik**
Department of Mechanical Engineering, Chaitanya Deemed to be University, Hyderabad, 500075, Telangana, India
School of Engineering, Jawaharlal Nehru University, New Delhi, 110067, Delhi, India
DOI: <https://doi.org/10.1007/s40032-025-01179-8>
Online Published date: 06 May 2025
Pages: 721–735
Title: **Design and Analysis of Grape Cold Storage Model Using IoT Based Technology**
Authors: **Abhijeet Shah, Amey Gaurvadkar & Sukanya Patil**
Mechanical Engineering Department, Rajarambapu Institute of Technology, Islampur, Affiliated to Shivaji University, Kolhapur, 415 409, India
DOI: <https://doi.org/10.1007/s40032-025-01177-w>
Online Published date: 05 May 2025
Page: 737–747
Title: **Development of Machine Learning Regression Models to Assess Von Mises Stresses of Miter Bend**
Authors: **Nirav Rathod & Dilip Patel**
Research Scholar, Gujarat Technological University, Ahmedabad, Gujarat, 382424, India
Mechanical Engineering Department, GIDC Degree Engineering College, Navsari, Gujarat, 396406, India

Articles Published in Latest Issue of IET Journals

Volume 10 | Issue 6 | June 2025

- DOI: <https://doi.org/10.1007/s40032-025-01181-0>
Online Published date: 05 May 2025
Page: 749–764
Title: **Evaluating the Effect of Viscous Force Discrimination on Haptic Guidance and Training**
Authors: **Sohaib Ahmad Sirwal, Babar Ahmad & Majid Hameed Koul**
Department of Mechanical Engineering, NIT Srinagar, Srinagar, 190006, Jammu and Kashmir, India
Department of Mechanical Engineering, IUST, Awantipora, 192122, Jammu and Kashmir, India
- DOI: <https://doi.org/10.1007/s40032-025-01182-z>
Online Published date: 02 May 2025
Pages: 765–781
Title: **Explicit Dynamic Analysis of Polypropylene Layered with Graphene and Hexagonal Boron Nitride Nanocomposites using ANSYS**
Authors: **Aamir M. Shaikh & Pravin R. Kubade**
Shivaji University, Kolhapur, Maharashtra, India
Shri Guru Gobind Singhji Institute of Engineering and Technology (SGGSIE&T), Nanded, Maharashtra, India
- DOI: <https://doi.org/10.1007/s40032-025-01180-1>
Online Published date: 01 May 2025
Pages: 783–794
Title: **Failure Analysis Case Study and Design Improvement of Shaft-Key-Flange Connection in EV Gearbox Applications**
Authors: **K. C. Ganesh, V. Karthikeyan & Ramachandra Panda**
Research and Development, AVTEC Limited, Hosur, Tamil Nadu, 635114, India
- DOI: <https://doi.org/10.1007/s40032-025-01186-9>
Online Published date: 18 April 2025
Pages: 795–803
Title: **Gear Modification of Hybrid Special Transmission Gear Transmission System**
Authors: **Xiaochun Zhang, Tingqing Wang, Xing Wang & Zhanglin Yang**
Department of Mechanical Engineering, Tongling Polytechnic, Tongling, 244061, China
Modern Health and Wellness Industry College, Anhui Sanlian University, Hefei, 230601, China
School of Mechanical and Automotive Engineering, Chuzhou Polytechnic, Chuzhou, 239000, China
- DOI: <https://doi.org/10.1007/s40032-025-01178-9>
Online Published date: 06 May 2025
Pages: 805–815
Title: **Human-Inspired Metaheuristics-Based Optimization of Turning of AISI 6061-T6 Aluminium**
Authors: **Devendra Pendokhare & Shankar Chakraborty**
Department of Production Engineering, Jadavpur University, Kolkata, West Bengal, India
- DOI: <https://doi.org/10.1007/s40032-025-01185-w>
Online Published date: 05 May 2025
Pages: 817–844
Title: **Microwave Assisted Joining of Monel-400 Using a 1200 W Domestic Oven: Microstructural Insights and Mechanical Properties**
Authors: **Manjunath R. Rawal & Duradundi Sawant Badkar**
Shivaji University Kolhapur and D.K.T.E's TEI Ichalkaranji, Kolhapur, Maharashtra, India
Sindhudurg Shikshan Prasarak Mandal College of Engineering, Kankavali, 416602, Maharashtra, India
- DOI: <https://doi.org/10.1007/s40032-025-01183-y>
Online published date: 30 April 2025
Pages: 845–856

Articles Published in Latest Issue of IET Journals

Volume 10 | Issue 6 | June 2025

- Title: **Mitigation of Unbalanced Magnetic Pull in Induction Motor with Oval Stator and Dynamic Rotor Eccentricity Using Specialized Stator Winding**
Authors: **Bipul Brahma, Karuna Kalita & Uday S. Dixit**
Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Guwahati, 781039, India
DOI: <https://doi.org/10.1007/s40032-025-01175-y>
Online published date: 06 May 2025
Pages: 857–872
- Title: **On Primary Recycled Dual Polymer-Based 3D Printed Functional Prototypes**
Authors: **Minhaz Husain, Kunal Gautam, Ranvijay Kumar & Rupinder Singh**
Department of Mechanical Engineering, Faculty of Engineering & Technology, Marwadi University Research Center, Marwadi University, Rajkot, India
Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Chandigarh, India
Department of Mechanical Engineering, Faculty of Engineering & Technology, Marwadi University Research Center, Marwadi University, Rajkot, India
Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Chandigarh, India
DOI: <https://doi.org/10.1007/s40032-025-01184-x>
Online published date: 29 April 2025
Pages: 873–888
- Title: **Taguchi-Based Experimentation Technique in Combination with Multifactor Regression for Optimization of Refrigerants, Design and Process Parameters to Maximize Heat Transfer in Heat Pumps**
Authors: **S. Yogendra Kumar, H. B. Bhaskar, M. Nagamadhu, R. Chandrashekar & N. Lohith**
Department of Mechanical Engineering, Sambhram Institute of Technology, Bengaluru, Karnataka, 560097, India
Visvesvaraya Technological University, Belagavi, Karnataka, 590018, India
Department of Mechanical Engineering, Sri Siddhartha Institute of Technology, Tumakuru, Karnataka, 572105, India
Sri Siddhartha Academy of Higher Education, Agalakote, B.H. Road, Tumakuru, Karnataka, 572107, India
Department of Mechanical Engineering, BMS Institute of Technology & Management, Bengaluru, Karnataka, 560064, India
Sri Siddhartha Academy of Higher Education, Agalakote, B.H. Road, Tumakuru, Karnataka, 572107, India
DOI: <https://doi.org/10.1007/s40032-025-01174-z>
Online published date: 17 April 2025
Pages: 889–896
- Title: **Real-Time Detection of Cracks and Structural Weaknesses in Materials and Surfaces Using Improved Deep Layered CNN**
Authors: **K. Amudhan, K. Vignesh Saravanan, R. Venkatesh & M. Ramnath**
Department of Mechanical, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, India
Department of CSE, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, India
Department of AI and DS, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, India
DOI: <https://doi.org/10.1007/s40032-025-01176-x>
Online published date: 06 May 2025
Pages: 897–912

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 6 | June 2025



Journal of The Institution of Engineers (India): Series E

[Chemical & Textile Engineering]

(Electronic ISSN: 2250-2491; Print ISSN: 2250-2483)

[CiteScore: 2.0; h5 Index: 11]

[SCOPUS Indexed]

For download, use Membership ID through: www.ieindia.org

Volume 106, Issue 1, June 2025

Title: **Effect of Dual Mordanting, Selective Dye Concentrations and Dye Compatibility for Minimizing Variation in Natural Dyeing of Jute Fabrics for Compound Shade Matching**

Authors: **Ritwik Chakraborty, Ashis Kumar Samanta, Padma Shree Vankar & Sarmistha Chakraborty**
Department of Jute and Fibre Technology, University of Calcutta, 35, Ballygunge Circular Road, Kolkata, West Bengal, 700 019, India
Bombay Textiles Research Association, Ghatkopar, Mumbai, Maharashtra, India
Rani Birla Girls' College, 38 Shakespeare Sarani, Kolkata, 700 017, WB, India

DOI: <https://doi.org/10.1007/s40034-024-00292-0>

Online Publication Date: 19 August 2024

Pages: 1–27

Title: **Comparison of Adsorption Capacity of Amine Modified Activated Carbon from Stone Apple for CO₂ Capture**

Authors: **Dipa Das**
Department of Chemical Engineering, Indira Gandhi Institute of Technology (IGIT) Sarang, Odisha, 759146, India

DOI: <https://doi.org/10.1007/s40034-024-00297-9>

Online Publication Date: 09 November 2024

Page: 29–43

Title: **Degradation of Cefixime from Wastewater Using Photo-Activated Sodium Persulfate and Optimization by Response Surface Methodology**

Authors: **Sarvesh Patel, Jyoti Sharma, Vitthal L. Gole & Ravi Shankar**
Department of Chemical Engineering, Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh, 273010, India

DOI: <https://doi.org/10.1007/s40034-024-00298-8>

Online Publication Date: 29 November 2024

Page: 45–55

Title: **Wickability of Soil Slurry by Jute and Coir Yarns**

Authors: **Temesgen Regassa Woyessa, R. Chattopadhyay, Sourabh Mhaski & G. V. Ramana**
Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India
Department of Civil Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India

DOI: <https://doi.org/10.1007/s40034-024-00299-7>

Online Publication Date: 12 November 2024

Pages: 57–68

Articles Published in Latest Issue of IET Journals

Volume 10 | Issue 6 | June 2025

- Title: **Enhancement of Mustard Oil Bio-Diesel Yield Using Evolutionary Algorithms**
Authors: **Pardeep Kumar, Ashwani Kumar Dhingra, Deepak Chhabra & Ashish Chhikara**
Department of Mechanical Engineering, University Institute of Engineering and Technology, Maharshi Dayanand University, Rohtak, Haryana, 124001, India
DOI: <https://doi.org/10.1007/s40034-024-00300-3>
Online Publication Date: 14 November 2024
Pages: 69–83
- Title: **User Friendly Low Cost Suitable Aids for Grading of Coconut Fibre at Farmers' End**
Authors: **Gautam Basu, Chanchal Kundu, Leena Mishra, Biman Das, Izhar Mustafa & Sujoy Karmakar**
ICAR- National Institute of Natural Fibre Engineering and Technology, Kolkata, West Bengal, India
DOI: <https://doi.org/10.1007/s40034-024-00301-2>
Online Publication Date: 20 November 2024
Pages: 85–92
- Title: **Comparative Life Cycle Assessment of Conductive Polyester Filters on Flat and Pilot Filtration Test Rigs Under Varying Aerosol Pre-Charge**
Authors: **Sudev Dutta, Arunangshu Mukhopadhyay, A. K. Choudhary & C. C. Reddy**
Lovely Professional University, Phagwara, 144411, India
Department of Textile Technology, Dr. B R Ambedkar National Institute of Technology, Jalandhar, 144011, India
Department of Electrical Engineering, Indian Institute of Technology Ropar, 140001, India
DOI: <https://doi.org/10.1007/s40034-025-00302-9>
Online Publication Date: 10 April 2025
Pages: 93–104

Announcement on National Convention

Volume 10 | Issue 6 | June 2025

**First Information Brochure
&
Call for Papers**

The Institution of Engineers (India)
A Century of Service to the Nation

**Fortieth National Convention of
Mechanical Engineers
and
National Conference
on
Recent Advances in Mechanical Engineering
[RAME 2025]**

August 23-24, 2025
Organised by
The Institution of Engineers (India)
Durgapur Local Centre
Under the aegis of
Mechanical Engineering Division Board, IEI
In Association With

National Institute of Technology Durgapur

Department of Mechanical Engineering
National Institute of Technology Durgapur

Venue
National Institute of Technology Durgapur
M.G. Avenue, Durgapur-713209

Selected Papers
will be recommended
for possible publication
in IEI-Springer Journal
after peer review

1

For details, please click here: <https://shorturl.at/p9ZGI>

We would like to thank our erudite members for sharing their professional achievements through the IEI Epitome and making the content more abounding and at the same time inspiring many others to share their accomplishments as well. To streamline the process and make it convenient for the member to give their inputs we would like to obtain the information in a more structured and comprehensive manner. We would request our members to send the details of their achievements as per the appended formats only.

FORMAT FOR ACHIEVEMENT BY MEMBERS

A passport size
color photograph
(scanned image)

(i) Prefix (Er/Dr/Prof)	
(ii) First Name	
(iii) Middle Name (if any)	
(iv) Surname (Last Name)	
(v) Email and Mobile Number	
(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Details of Award/Achievement#	
(x) Month & Year of Achievement/ Date of Achievement	
(xi) Supporting Documents/links [which are clearly indicative of the incumbent's achievement(s)]	

Reporting of Award of stipend/fellowship at PG/PhD level and awards from esoteric events/communities may be avoided

FORMAT FOR PATENT / DESIGNS / TRADE MARKS / GEOGRAPHICAL INDICATIONS BY MEMBERS

A passport size color photograph (scanned image)

(i) Prefix (Er/Dr/Prof)	
(ii) First Name	
(iii) Middle Name (if any)	
(iv) Surname (Last Name)	
(v) Email and Mobile Number	
(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Tick the appropriate BOX	<input type="checkbox"/> Patent <input type="checkbox"/> Designs <input type="checkbox"/> Trade Marks <input type="checkbox"/> Geographical Indications
(x) Issuing Authority	
(xi) Serial No	
(xii) Patent No	
(xiii) Date of filing (DD/MM/YYYY)	
(xiv) Date of Grant (DD/MM/YYYY)*	
(xv) Patentee	
(xvi) Details of Patent	
(xvii) Term for which the above (ix) has been granted	

* Copy of Certificate of the Grant of Patent

FORMAT FOR PUBLICATION(S) BY MEMBERS — PAPERS

A passport size
color photograph
(scanned image)

(i) Prefix (Er/Dr/Prof)	
(ii) First Name	
(iii) Middle Name (if any)	
(iv) Surname (Last Name)	
(v) Email and Mobile Number	
(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Title of Paper	
(x) Name of Journal/Proceeding/Technical Volume	
(xi) Volume No (Not required for Indian Engineering Congress)	
(xii) Issue No (Not required for Indian Engineering Congress/Annual Technical Volumes of IEI)	
(xiii) Theme (Only for Technical Volumes of IEI)	
(xiv) DOI: (Not required for Indian Engineering Congress/Annual Technical Volumes of IEI)	
(xv) ISSN	
(xvi) Date of Publication (Date-Month-Year)	
(xvii) Co-authors (if any)	
(xviii) Abstract in full	
(xix) 5/6 Keywords	
(xx) Supporting Documents/links [which are clearly indicative of the incumbent's achievement(s)]	

Note: Publications in local seminar, conference and symposia will not be accounted

FORMAT FOR PUBLICATION(S) BY MEMBERS — BOOKS/ BOOK CHAPTERS

A passport size
color photograph
(scanned image)

(i) Prefix (Er/Dr/Prof)	
(ii) First Name	
(iii) Middle Name (if any)	
(iv) Surname (Last Name)	
(v) Email and Mobile Number	
(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Title of Book	
(x) Title of Book Chapter	
(xi) Book Chapter Number	
(xii) Publisher Details	
(xiii) ISBN	
(xiv) Date of Publication (Date-Month-Year)	
(xv) Co-authors (if any)	
(xvi) About the book (100-150 words)	
(xvii) Supporting Documents (complimentary copies for IEI Headquarters)/links [which are clearly indicative of the incumbent's achievement(s)]	

Note: Accommodate works published in journals/reputed conference proceedings/books for the last one year

Notification for Advertisement in IEI Epitome

Volume 10 | Issue 6 | June 2025

The Institution of Engineers (India) reserves a coveted privilege in being the largest multi-disciplinary professional body of engineers encompassing 15 engineering disciplines with a Corporate membership of over 2.59 lakhs maintaining a national/international presence through hundred twenty four Centres and six Overseas Chapters, Fora's and Organ (Engineering Staff College of India). The Institution has been disseminating the various information through IEI Epitome and other publications.

We would like to share with you that we are now providing the facility to advertise engineering / technical products/services, information brochure, recruitment notices etc. in our official publication portal IEI Epitome (12 issues - 196000 reach online). Besides, IEI Epitome is also uploaded on our website (www.ieindia.org) on a monthly basis and is accessible to all free of cost. Given its immense footprint in the engineering and technical diaspora spanning the globe, IEI with its distinguished heritage of a century provides you the ideal portal to connect with the National and International Engineering and Technical Community at very competitive rates. We invite you to take this unique and privileged opportunity to advertise and communicate your service and product portfolios under our prestigious banner and make us your brand emissaries in your promotional campaigns.

The booking form containing details of each publication, rates for the advertisements and the advertisement form are appended below.

BOOKING FORM

Publication	Description	Type	Rate (Rs.) including GST	Number of Issues / Volumes	Total (Rs.) including GST
IEI Epitome	Inside Full Page	Colour	30,000		
	Inside Half Page	Colour	15,000		
	Inside Quarter Page	Colour	8,000		

Less discount* @%

Total Cost of Advertisement

✦ 5% discount for advertisement in 6 consecutive issues of IEI Epitome

✦ 10% discount for advertisement in 12 consecutive issues of IEI Epitome

Payments to be made by Cheques / Drafts drawn in favour of "The Institution of Engineers (India)".

Cheque / Draft No. Drawn on

Date:

Mobile No.

E-mail:

GSTIN:

Signature with seal

* Payment can also be done Online through our website: www.ieindia.org, details of which will be provided at the time of Payment.



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
(IMS [ISO 9001:2015, ISO 14001:2015, ISO 50001:2018, ISO 45001:2018])
ISO/IEC 17025:2017 Certified, AICTE & CEA Recognized Institution)

Continuing Professional Development Programmes (CPDP) for the Month of July 2025

Sl. No.	Name of the Course	Scheduled Dates
1.	O&M of Sewerage Network System and Treatment Plants	02 - 04 July 2025
2.	Certification on Microsoft Power BI Data Analyst	07 - 09 July 2025
3.	Cost reduction by Energy Auditing, Management & Design of Solar Energy Systems	07 - 10 July 2025
4.	Smart Mining with Digital Technologies — Application of Internet of Things (IoT), Smart Sensors and Artificial Intelligence, Robotics, Remote Operations, Men-Tracking	07 - 11 July 2025
5.	Safety Management in Construction and Civil Structures	07 - 11 July 2025
6.	Design & Optimization of UAV's for Industrial Applications (Defense, Mining & Construction)	07 - 11 July 2025
7.	NDT Level II Certification in Dye Penetrant Inspection (DPI) and Magnetic Inspection (MPI) (in Accordance with ASNT Document No. SNT-TC-1A 2011)	08 - 10 July 2025
8.	Assessment of Irrigation Demand and Irrigation Scheduling using Latest Software Applications	09 - 11 July 2025
9.	Capacity Building Programme for Technical Personnel of Defense, Government and PSU's	14 - 17 July 2025
10.	Smart Grid & Smart Metering Technologies & Applications	14 - 17 July 2025
11.	Carbon Markets post COP28 - Renewable Energy Transition	14 - 18 July 2025
12.	MS Azure Cloud Administration	15 - 17 July 2025
13.	Occupational Safety & Health Challenges in Coal & Iron Ore Mining	16 - 18 July 2025
14.	Best Practices in O&M of Industrial Valves & Actuators for Heavy Industries & Power Plants	16 - 18 July 2025
15.	Calibration in Engineering Industry	16 - 18 July 2025
16.	Advanced Intelligent Transportation System Applications for Highways	21 - 23 July 2025
17.	Developing Cost-Effective Humanoid Robots	21 - 24 July 2025
18.	Web Development using MERN Stack	21 - 24 July 2025
19.	Operation, Maintenance and Performance Monitoring of Centrifugal Pumps, Blowers and Compressors (including Reciprocating and Screw Compressors)	21 - 25 July 2025
20.	ISO 9001:2015 QMS - Lead Auditor Training (CQI - IRCA - UK Certified)	21 - 25 July 2025
21.	Networking and use of sensors for on farm Irrigation Water Management	22 - 25 July 2025
22.	Faecal Sludge and Septage Management	23 - 25 July 2025
23.	Training on Risk Management for Engineers, Scientists and Managers.	23 - 25 July 2025
24.	Gas Insulated Substations - Design features, Construction, Testing, Operation and Maintenance	23 - 25 July 2025
25.	Energy Security – Exploration & Mining of Critical Minerals & Elements	28 - 30 July 2025
26.	Leadership Styles and Teambuilding Skills for Organizational Development.	29 - 31 July 2025
27.	Conflict Management, Decision Making and Problem-Solving Skills	30 - 31 July 2025

For detail information please click on <https://escihyd.org/>

Announcement on International Virtual Conference

Volume 10 | Issue 6 | June 2025

REINFORCE 2025

International Virtual Conference on

**Resilient Engineering Innovations for a Future-Oriented,
Reliable & Circular Economy Infrastructure**

Hosted by



MACCAFERRI

Supported by



World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs



Date: 15th-16th JULY, 2025



Time: 10.00 AM - 6.00 PM (IST/ GMT +05:30)

KEYNOTE SPEAKERS

Dr. G. L. Sivakumar Babu, IISc Bangalore

Dr. Madhavi Latha G, IISc Bangalore

Dr. Ashish Juneja, IIT Bombay

Dr. A. Murali Krishna, IIT Tirupati

Dr. Amit Prashant, IIT Gandhinagar

Mr. Pierluigi Bassetto, CEO, NESAs, Italy

...and many more global experts

FOCUS AREAS

Climate-Resilient Infrastructure
Rockfall and Landslide Mitigation
Sustainable Pavement Systems
IoT-based Smart Monitoring
Soil Reinforcement and Bioengineering
Circular Economy in Civil Engineering

SPONSORSHIP OPPORTUNITIES

Sponsorships start from **INR 50,000**. Reach global professional and get featured on digital platform.

CONTACT

Mr. Tanmoy Chakraborty
intl@ieindia.org +91 98307 61661

Mr. Sumit Pathak
p.sumit@maccaferri.com +91 9873007275

WHY ATTEND ?

- ❖ Talks by eminent speakers from IISc, IITs, NITs, NESAs, Maccaferri and international bodies
- ❖ Insights into sustainable materials, smart design, and resilience
- ❖ Participation counts toward CPD hours by IEI
- ❖ Access to all sessions, materials, and an e-certificate
- ❖ Opportunity to engage with global engineering professionals

REGISTRATION

For registration use the links below

<https://bit.ly/43QXSIf>

or

<https://www.maccaferri.com/in/reinforce-2025/>

or Scan the QR Code



Our Gold Sponsors



GUJARAT METRO RAIL CORPORATION (GMRC) LIMITED
(SPV of Government of India and Government of Gujarat)
[Formerly known as Metro-Link Express for Gandhinagar And Ahmedabad (MEGA) Company Limited]



GUJARAT MARITIME BOARD
Government of Gujarat Undertaking