

**International Conference on Innovative Approaches in
 Multidisciplinary Engineering and Technology
 (ICIA-MET'25)**

8th - 10th April 2025

Conference Schedule

Day 1: Tuesday 08 April 2025		
Time	Particulars	Location
09:00 – 10:30	Registration & Tea	IOE Lobby
10:30 – 11:30	Inauguration	IOE Seminar Hall
11:30 – 13:00	Key Note Address	IOE Seminar Hall
13:00 – 14:00	Lunch Break	Canteen
14:00 – 14:30	Session 1: Session Chair Address	Respective Department
14:30 – 16:30	Session 1: Paper Presentation	Respective Department
16:30 – 17:00	Session 1: Certificate Distribution	Respective Department
Day 2: Wednesday 09 April 2025		
10:00 – 10:30	Tea	IOE Lobby
10:30 – 11:00	Session 2: Session Chair Address	Respective Department
11:00 – 13:00	Session 2: Paper Presentation	Respective Department
13:00 – 13:30	Session 2: Certificate Distribution	Respective Department
13:30 – 14:30	Lunch Break	Canteen
14:30 – 15:00	Session 3: Session Chair Address	Respective Department
15:00 – 17:00	Session 3: Paper Presentation	Respective Department
17:00 – 17:30	Session 3: Certificate Distribution	Respective Department
Day 3: Thursday 10 April 2025		
10:00 – 10:30	Tea	IOE Lobby
10:30 – 11:00	Session 4: Session Chair Address	Respective Department
11:00 – 13:00	Session 4: Paper Presentation	Respective Department
13:00 – 13:30	Session 4: Certificate Distribution	Respective Department
13:30 – 14:30	Lunch Break	Canteen
14:30 – 15:30	Valedictory Function	IOE Seminar Hall

Day 1: Tuesday | 08 April 2025 | Time (14:30 – 16:30)

Session 1

Track 1: Digitalization in Civil Engineering

Sr. No.	Paper Title	Author Name
01	Identification and Evaluation of Safety Factors in Construction Industry Using Fuzzy Reasoning Technique	Suraj Phad
02	Smart Construction Materials: Fly Ash-Lime-GGBS Stabilized Subbase for Sustainable Pavement Solutions	Hrushikesh Kedar
03	Smart Urban Infrastructure for Sustainable Development: Innovations, Challenges, and Future Prospects.	Vivek Wagh
04	Labor Shortage and Workforce Development	Vijay Deshmukh
05	Design of Dual Media Water Filter Purifier Using Clay Pot Author	Prashant Patil
06	Comparative Analysis of Bridge Inspection Practices and Management System: Insights from India and the United States	Abhijit Thakare

Track 2: Power System in Electrical Engineering

01	Multi Source Energy Management System In E.V Charging Station	Ajay Pawar
02	Development of Solar Powered Automated Floating Type Oil Skimmer	Kanchan Chavan
03	Design and Development of Fast and Power Efficient Elevator	Rasika Chandramore
04	Enhancing Protection And Monitoring in Modern Distribution Systems Using Smart Meter: A Review	Charansingh Ingle
05	Residential Sanctioned Load Monitoring and Controlling Using Plc and Scada	Deeba Khan
06	Automated Entry Door Powered by Waste to Electricity Generation	Ajay Thakare
07	Power Generation by Burning Dry Waste By Using Solar Heating Panels and Teg	Dwarkesh Saykhedkar
08	Any Time Medicine Dispersion	Akash Kolhe
09	Captive Energy Generation by Using Gym Equipment	Ashutosh Satav
10	Performance Evaluation Of Lithium-Ion Batteries Considering State of Charge And State of Health for Electric Vehicle Applications	Bhupendra Deshmukh

Track 3: Electronics and Communication System

01	Solar Based Grass Cutter with Lawn Coverage	Aashlesha Pawar
02	Development of a 5-DOF Prosthetic Hand with ROS 2 for Real-Time Adaptive Control	Rasika Chandramore
03	Landmine Detection Robotic Vehicle With GPS Positioning	Shubham Gaikwad
04	Develop a System to Controlled Prosthetic Hand by Using EMG	Puja Yeola
05	An extensive review of IoT and Wireless Power Transfer Based Movable Spotlight	Priyadarshanee Mahajan
06	Wildlife Intrusion Detector	Suhani Sinha
07	IOT Based Monitoring and Controlling Substation Equipment	Lucky Pawar
08	IOT Based Attendance System	Kahesh Borse
09	Design Of Prepaid Controlled Energy and Water Meter using GUI	Rucha Tatar
10	Smart Trolley Billing System	Kalindi Mahajan

Track 4: Intelligent Cyber System and Machine Learning		
(Location 1)		
01	Enhancing Electric Vehicle Charging Performance Using Machine Learning Techniques: A Literature Review of Current Practices and Advancements	Vijay More
02	Deepfake Video Detection Using Efficientnet and Convolutional Techniques	Ajay Shinde
03	Smart Surveillance for Enhanced Public Safety	Niraj More
04	AI-Powered Defense: Advancing Cybersecurity Through Artificial Intelligence Innovations	Tanisha Waghmare
05	Smart Farming-IoT Based	Shubham Sanap
06	AGRISMART	Sakshi Jain
07	Implementation of Machine Learning based Text to Speech Translator using Raspberry Pi	Vaibhavi Bhalerao
08	GradeSense: Smart Grading for Descriptive Assessments	Mayuri Thorat
(Location 2)		
01	Handwritten Sanskrit Word Recognition: A Deep Learning Approach using AlexNet	Shraddha Shelke
02	Hastvani : Indian Sign Language to Text and Speech Translation	Priyanka Gaikar
03	Automated Inspection System for Multifunction Meter Display Inspection	Ritesh Girase
04	Empowering Communication in Indian Sign Language Recognition for Deaf and Dumb Individuals Using Deep Learning	Kaveri Chandan
05	FormVision : Text Detection and Recognition in Imagery within Program exit survey.	Snehal Bhagure
06	Optimizing Blockchain Mining for Fairness and Efficiency in Decentralized Networks	Gunjan Deshmukh
07	Study of Efficient Indexing Mechanisms for Distributed Data	Janhvi Shirsath
08	A Study on Feature Subset Selection for Feature Streams of Dynamic Data	Priyadarshini I. Babu
(Location 3)		
01	Dynamic Job Market Analysis Platform	Sanil shinde
02	Dynamic ML: A Novel Automated Machine Learning Tool for Streamlined Model Development	Siddhesh Rahane
03	An Effective Privacy Preservation Technique for Enhancing Data Usability	Dhananjay Kanade
04	Smart Policing System Using LLM	Bhagyashri Kasar
05	Real Time Face Spoofing Detection using Machine Learning	Anant Chavan
06	Next-Gen Threat Detection: Leveraging Federated Learning for Malicious URL Identification	Gaurav Lad
07	Blockchain-Based Models for Secure and Interoperable Electronic Health Records	Manjusha Khond
08	An Overview, Significance, and Uses of Blockchain Technology	Shrinivas Sonkar

Track 5: Manufacturing, Design and Thermo-Fluidics		
01	Parametric Optimization and experimental validation of WEDM technique for OHNS steel	Samruddhi Lohakare
02	Taguchi-based experimental study on surface roughness of EN31 steel in turning operations	Gaurav Demse
03	Review on difficulties in CFRP Machining	Vishal Kapse
04	Selection of Parameters for Non-Traditional Machining Processes	Sunil Kumavat
05	A review on stress analysis of machine tool holders	Amol Ahire
06	Recent Advancements in the Machining and Surface Integrity of Nickel based Alloys: A Review	Santosh Shekokar
07	Total Productive Maintenance in Manufacturing Enterprises: Literature Review	Tomislav Slavina
08	Verification of Pump Performance Using Laboratory Data and Machine Learning	Rajendra Pawar
Track 6: Engineering Science		
01	Nanoparticles a boon to healthcare in form of 3D Printing	Swapnaja kasodekar
02	Indian Knowledge System	Shubahngi Halkunde
03	Fallacious Reasoning	Rajkumar Rajkuvar
04	Extraction of Natural Dye from Red Rose Flowers	Seema Nikam
05	Symmetric Solutions of a Nonlinear Parabolic Problem with Dirichlet Boundary Conditions at initial condition using the Moving Plane Method	Archana Shirsat
06	NAAM Transform: Properties and Applications	Namrata Khairnar
07	Microbial Remediation of Hexavalent Chromium Cr(VI) Contamination in industrial effluent : A Promising Approach for Environmental Sustainability	Pradnya Raut
08	Growth and Characterizations of Nanostructure Cu _{0.5} In _{0.5} Se Thin Films	Rajendra Dhake
09	Analysis of Nonlocal Thermoelasticity Effects using Transformation Methods by Applying Boundary Conditions	Jyotsana Gore
10	Benchmarking and Performance Metrics for Academic Libraries	Sambhaji Patil

Day 2: Wednesday | 09 April 2025 | Time (11:00 – 13:00)

Session 2

Track 1: Digitalization in Civil Engineering

Sr. No.	Paper Title	Author Name
01	A comparative study of on field and speculative labour productivity for g+1 residential bungalow construction	Manoj Avhad
02	Analysis of Axisymmetric Solid with Isoparametric Element-A Parametric Study	Neha Pimpale
03	Life Cycle Cost Methodologies for Sustainable Concrete: A Comprehensive Analysis	Sakshi Pajai
04	Comparison of Construction with Traditional Methods and 3D Printing Technology	Swapnil Gajakas
05	Enhancing Slope Stability: A Study on Strip Footing with and without Micro piles	Ravindra Jagtap

Track 2: Power System in Electrical Engineering

01	A Review on Fast Charging Station for Electric Vehicle	Rahul Nikam
02	A Review of Power Quality Challenges Associated With Electric Vehicle Charging Stations	Tushar Pandhi
03	Cancer Chemotherapy Dosage Estimation Using Robust Controller for Non-Linear Kernel-Based Error Function	Utkarsha Mohite
04	An overview of Effect of Electric Vehicle Charging Station on MV Distribution System	Abhilash Netake
05	Solar System Design, Operation and Installation	Kirti Kulkarni

Track 3: Electronics and Communication System

01	Color image encryption using multiple chaotic maps	Rupaliben Chothe
02	Microstrip Line Fed Capacitively Coupled Patch Antenna for wireless application	Mandar Joshi
03	Autonomous Agricultural Rover: Revolutionizing Precision Farming with Robotics and Automation	Kalindi Mahajan
04	Effects of Music Therapy on Plants in Controlled Environment	Tanmay Rathod
05	Deep learning method to de-noise the medical images	Minal Mahajan
06	A Smart Cradle with Integrated IoT for Enhanced Infant Safety and Well-being	Gauri Takalkar
07	Discrete Emotion Recognition Based On Text Using Artificial Neural Network For Natural Language Processing	Amit Ufade
08	Multilingual Language Learning Chatbot	Saisha Hiray
09	Optimization Method for Abnormal Heart Sound Detection: A Review	Pravin Bharati
10	A Comprehensive review of IoT Gateways and Clouds	Dnyaneshwar Ahire

Track 4: Intelligent Cyber System and Machine Learning		
(Location 1)		
01	AI-Enabled Feedback Management for Enhancing Education	Radha Sali
02	Personalized AI Tutor: Acampus.ai	Mohit Patil
03	Exercise Buddy: An AI-based exercise Tracking and Feedback System	Nikhil Kasbe
04	Social media fake account identification using machine learning	Rohini Gamane
05	AI-Driven Exam Grading, Percentile Calculation, and Plagiarism Detection System for Educational Integrity	Prasanna Pandhare
06	Edutrade Web Portal: A Comprehensive Educational Trading Platform for Students	Leena Chaudhari
07	Gen AI-Powered Digital Twins: Revolutionizing Simulations and Decision-Making in Smart Cities	Sheetal Gosavi
08	Intelligent Enterprise Assistant	Sanket Chaudhari
(Location 2)		
01	Early Detection of Dementia Using Deep Learning and Image Processing	Bhavesh Gadekar
02	Emotion Based Movie Recommendation System Using Deep Learning	Karishma Kankariya
03	Design and Development of an Efficient Internship Management System, A Review.	Arpita Yeole
04	Candidate Selection Using Online Jobs Portal	Harshal Patil
05	One Stop: Service Provider System	Aishwarya Ghumare
06	PHISHERMAN : A Phishing Emails Detecting Browser Extension	Vaibhav Shermale
07	Generic Virtual Mouse	Pooja Pawar
08	SaaS Multi-Model Integration: A Comprehensive Student Companion	Anuj Chobe
09	VERONICA: Advance Riding Assistance System	Aditya Salve
(Location 3)		
01	Nitro IDE Exploring Integrated Development Environments : Current Trends and Innovations	Aditya More
02	ToneCraft: Professional and Friendly Tone Enhancer	Yash Firke
03	A Result on Admission Enquiry Chatbot	Rusha Patel
04	Ability Bridge - Helping hands for specially abled people	Priti Gaikwad
05	Automated Summarization of Healthcare Records using LLM	Nitin Dhamale
06	Precision Farming: AI for Optimized Land Management	Kartik Sangle
07	A Review on Design and Analysis Model for Detection and classification of lung diseases using Medical Images	KISHOR UGALE

(Location 4)		
01	Predicting Sugarcane Biomass and Nitrogen Using UAV LiDAR & Multispectral Imaging	Siddesh Kankrale
02	AI-Powered Railway Grievance Resolution Portal	Nishant Bide
03	AI Trip Planner: A Personalized Travel Itinerary Generator Using AI Technologies	Aboli Mathakari
04	Lung Disease detection through Machine Learning	Sakshi Sonar
05	Fitness Assistant	Neha Sardar
06	Group Activity Recognition: Analysis of CNN Backbone Performance	Yogita Desai
07	Anomaly Detection in Air Quality: A Comprehensive Review of AI based Methods	Mahesh Korade
08	Smart Irrigation System for Precision Farming	Dattatray Gatkal
(Location 5)		
01	The Metaverse Revolution: Unveiling India's Socio-Economic Transformation	Pundlik Jadhav
02	Predictive Techniques for Stock Price Movement using Quantum-Classical Approach: A Comprehensive Review	Manoj Bhatkar
03	Role Of Quantum Computing in Cryptography	Perna Ahire
04	TensorFlow: Architecture, Applications, and Future Challenges	Nikita Aher
05	A Hybrid Approach for Aspect-Based Sentiment Analysis Using Dependency Parsing	Shravani Nikam
06	ProBit- Manage Your Project in a Streamlined Orbit	Sumit Bachhav
07	Web Based Selector - Applicant Simulation Software	Abhishek More
08	Satellite-Based Optimal Route Finder for Rough Terrain	Shruti Shinkar
Track 5: Manufacturing, Design and Thermo-Fluidics		
01	Digital Twin Technology: A Comprehensive Review of Current Trends and Future Prospects	Sachin Dahake
02	Mechanical behavior of tungsten carbide under the high impact velocity application: a numerical-based study	Nilesh Gaikwad
03	A Review on Failure Investigations and its Techniques	Ganesh Gawande
04	Integrating AI and ML in Tribology: A Review of Current Trends and Future Prospects	Darshan Kulkarni
05	Advances in Laser Hardening: A Review on Techniques, Trends and it's Applications	Nitin Shewale
06	Laser Engraving Machine	Shruti Mojad
07	A comprehensive study of defect analysis and reduction in gravity die casting	Vishal Dhore
08	Applicability of Artificial Intelligence for Logistics in Context with Indian Ecosystem	Sudhir Chaurey

Day 2: Wednesday | 09 April 2025 | Time (15:00 – 17:00)

Session 3

Track 5: Manufacturing, Design and Thermo-Fluidics

01	Model-driven analysis of gearbox of a wind turbine under constant and ramp-up wind load	Rishi Kumar
02	Safety braking system to avoid the failure in air brake Hoses	Rohit Waghmare
03	A review on computational fluid dynamics of heat exchanger	Vikas Zadkhande
04	Biomass to Bio-fuel: A Review on Techno-economics in Biomass Supply Chains	Ajit Kasodekar
05	Chemical reactor design and analysis: A review	Satish Eandole
06	Coupled thermal and structural analysis on different brake disc materials using finite element analysis	Manoj Patil
07	Investigation of Battery Thermal Management System of Lithium-Ion battery pack Using PCM .	Ravindra Ghogare
08	Effect of Metallic Oxide Nanoparticles on Refrigeration System Performance.	Dinesh Panchve

Day 3: Thursday | 10 April 2025 | Time (11:00 – 13:00)

Session 4

Track 4: Intelligent Cyber System and Machine Learning

(Computer Lab)

01	Deepfake Technology: Generation, Detection, and Ethical Implications	Pundlik Jadhav
02	Techniques for Detecting Digital Image Forgeries: A Comprehensive Overview	Vaishali Khandave
03	A Comprehensive Review on- Privacy Preserving Technique in Private Blockchain for Healthcare	Madhuri Shinde
04	A Survey on Predicting Heart Disease using Machine Learning Techniques	Dhananjay Yeola
05	Enhancing IoT Network Security with Hybrid Deep Learning Classifiers for DDoS Attack Detection	Manjusha Khond
06	Plant Disease Detection and Classification using Deep Learning	Tejaswini Kushare

Track 5: Manufacturing, Design and Thermo-Fluidics

01	Analysis of SS 304L Pressure Vessel under Saddle Constraints and Insulation Using FEA	Bariş Baç
02	Calophyllum inophyllum oil- a potential feedstock for biodiesel: An overview	Amol Varanadal
03	The impact of manufacturing parameters on the mechanical properties in FDM 3D Printing	vishal chaudhari
04	Performance Assessment of Friction Stir Butt Welded Aluminum & Copper Joint	Sharad Nirgude
05	Issues and Approaches for Improving the Efficiency of Hydrodynamic Journal Bearings (HJB) Performance	Nitin Ahire
06	Optimization of Resistance Spot Welding Parameters for 316L Stainless Steel Using Response Surface Methodology and Box-Behnken Design	Vinod Tawlarkar