An Initiative by "The Last Centre"
ECHELON
TRANSFORMING THE EDUCATION

ECHELON INSTITUTE OF TECHNOLOGY

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Report on Two-Day International Conference – ETESM 2025

The **International Conference on Emerging Trends in Engineering, Science & Management (ETESM 2025)** commenced today at **Echelon Institute of Technology, Faridabad** with great enthusiasm and participation from scholars, researchers, and industry professionals across the nation. The two-day conference is being organized in **hybrid mode**, facilitating both in-person and virtual participation, and has received **504 research papers** from reputed institutions across world.

The inaugural session witnessed the presence of eminent dignitaries:

- **Chief Guest:** *Dr. Prerna Gaur*, Director, NSUT and Chair, IEEE India Council
- **Guest of Honour:** *Director General Institute of Solar Energy*
- **Guest of Honour:** *Shri D. M. Kiran*, CEO, Sewa Bridge Foundation

Key note speakers

- **Dr. Chinnaiyan Ramasubramanian**, Pro Vice-Chancellor, Lingaya's Vidyapeeth
- **Dr. Dimitrios A. Karras, Professor,** National and Kapodistrian University of Athens (NKUA)
- **Prof. Giovanni Pau,** Faculty of Engineering and Architecture, Kore University of Enna, Italy
- **Mrs. Jeyaprabhavathi Perumal,** Senior Lecturer Arden University, Tower Hill campus, London
- **Dr. Shailendra Kumar,** Asst. Professor, IIT Bhilai
- **Bindeshwar Singh,** Associate Professor, MMMUT, Gorakhpur
- **Dr. Anjanee Kumar Mishra,** Assistant Professor, NSUT, New Delhi
- **Dr. Sandeep Gupta,** Associate Professor, Graphic Era, Dehradun
- **Dr. Satya Prakash Yadav,** Associate Professor, MMMUT, Gorakhpur, U.P.
- **Dr. Saurabh Kumar,** Assistant Professor, Institute of Engineering and Rural Technology (IERT), Prayagraj

In addition to this

The event began with the traditional lighting of the lamp followed by welcome addresses from institutional heads followed by addresses by guests:

- **Chairman Shri Prabhat Agarwal** welcomed all dignitaries and participants, emphasizing the institute's commitment to interdisciplinary innovation and academic excellence.
- **Director Dr. Sudarshan Goshwami** highlighted the importance of platforms like ETESM for fostering cutting-edge research and cross-domain knowledge sharing.
- **Dean R&D, Dr. Anurag Dwivedi**, provided an overview of the conference objectives and thanked reviewers and contributors for their enthusiastic support.

Dr. Prerna Gaur delivered an inspiring talk that emphasized the growing role of **IEEE as a global platform** to promote innovation, research, and professional development in engineering and technology. She encouraged academic institutions and students to establish IEEE student branches, join various IEEE technical societies, and actively engage in technical paper writing, standards development, and conferences to improve international exposure. Dr. Gaur also discussed the rapid evolution of technologies like **Artificial Intelligence (AI), Machine Learning (ML), Cyber-Physical Systems, Internet of Things (IoT), and Robotics**, and their transformative role across all engineering domains.A key highlight of the inaugural ceremony was the **launching of the conference souvenir**, which compiles abstracts, keynote messages, and the thematic agenda of ETESM 2025. The souvenir was unveiled by the esteemed guests on stage.

The first day hosted **12 technical sessions—6 pre-lunch and 6 post-lunch**—conducted in both **offline and online mode**. These sessions covered a wide spectrum of themes such as:

- Artificial Intelligence and Machine Learning
- IoT and Smart Systems
- Renewable Energy Technologies

- Advanced Materials and Nanotechnology
- Engineering Applications in Healthcare
- Sustainable Management Practices

Experts, researchers, and budding scholars actively participated in discussions, paper presentations, and Q&A sessions.

The online sessions were hosted on a dedicated virtual platform with seamless coordination and technical support, ensuring broad and inclusive participation across geographical boundaries.

Day 1 concluded on a high note with active engagement from more than ---**participants**, including faculty members, PhD scholars, UG/PG students, and industry delegates. The conference continues tomorrow with more technical sessions, keynote addresses, and a valedictory ceremony.

Day 2 of the FDP begins with parallel offline and online sessions. There are 6 online and 4 offline sessions.

A **Valedictory Session** was held during the lunch break and was graced by **Special Guest Dr. Sanjay Agarwal, Professor, IGNOU, New Delhi**. He addressed the gathering with a thoughtful reflection on:

- The importance of **open and inclusive education** in driving research dissemination.
- Encouraged educators to promote **interdisciplinary and community-focused research**.
- Commended the organizers for creating a **research-centric platform** like ETESM and praised the hybrid format for ensuring wider accessibility.

Certificates were distributed to session chairs, participants, and volunteers during this session.

The event was meticulously organized under the leadership of Dr. Anurag Dwivedi, Dr. Pramod Singh, Dr. Manisha Vashistha, Mr. Sujeet with active support from the organizing team, faculty members, and student volunteers. Their dedication ensured the smooth execution of the event.

Echelon Institute of Technology, Faridabad

ETESM-2025Offline Presentation

S.No	Date	Slot	Paper ID	Author Name	Title
1	14 JUNE'25 Afternoon Session	Session 1 Admin Block Conference Hall 12:00-1:30	473	SANKEETA JHA	Software Effort Estimation through Various Neural Network Techniques
2			250	Arsh Wadhwa , Aditya Kumar Singh	Compact weight Smart Stick with Arduino Microcontroller
3			352	Sonal Kaushik, kavita Singh	Study of Various Types of Arduino Boards: A Review on Features, Applications, and Advancements
4			378	Tripti	Exploring VoIP Technology: Protocol Standards, Security Threats, and Wireless Compatibility
5			96	Gangadhara Harshini, Nirbhay Kumar Pandey, Enjula Uchoi, Va	Drug Screening using stem cell technology
6			504	Pramod Singh, Anurag Dwivedi	Sustainable Antenna Technologies for Green IoT Applications: A Review
7			490	Jitendra Singh,	Mathematical Model of Cancer Growth and Tumor-Immune-Host Cell Interactions with Chemotherapy and Optimal Treatment Strategies
8			461	Manish Dagar	From Page to Screen: How Indian Regional Literature Reconfigures Genre in Cinema as a Decolonial Practice
9		Session 2 S-34 Board Room 12:00-1:30	478	Ruchika Aggarwal	Exploring DeepSeek: A Human-Centric Review of Open-Source Language Model
10			98	Yash Rawat , Harsh Tongar , Hemant	Face Recognition Attendance System using Local Binary Pattern Histogram Algorithm
11			106	Gaurav Rawat , Rupendra Singh Chahar	Fingerprint-Based Attendance Monitoring System Using Arduino
12			108	Kanishka Abhay Sarangdhar, Kanika Debbarma, Enjula Uchoi	Automated Crop Disease Detection Using Convolutional Neural Networks
13			111	Gungun Verma, Shreya Sen ,Nitya Yadav	AI based travel itinerary maker
14			191	Khushi Singh , Sheetal Singh , Artiro Chakraborty , Sujeet Kuma	Ethical Challenges in Natural Language Processing: A Comparative Study of Solutions Across Multiple Domains
15			491	Saroj	The Influence of Training and Development on Employee Innovation in the IT Sector: A Study of Multinational Corporations in India
16			171	Fardeen Khan, Rupendra Singh Chahar	Real-Time Sign Language to Speech Conversion Glove Using Arduino and Wearable Sensors
17		Session 3 G-29 Seminar Hall 12:00-1:30	503	Dr. Sima Kumari	An Analytical Study on Stress Management Strategies and Their Impact on Performance of the Faculty Members specially in Engineering, Technology, Science, and Management Colleges based in Delhi and NCR
18			254	Aritro Chakraborty , Sheetal Singh , Khushi Singh , Sujeet Kuma	Natural Language Processing in Everyday Applications: From Classrooms to Clinics
19			259	Rohit Kumar	Cybersecurity in Web Automation: A Machine Learning Approach to Lightweight Intrusion Detection
20			492	yogesh pilwan	Assessment of Dual and Multi level Security Mechanisms
21			493	Preeti	An Optimized Genetic Algorithm for the Travelling Salesman Problem
22			494	mohd bilal khan	Analyzing Market Basket Patterns through Apriori Algorithm and Association Rules
23			274	Yashika Wadhwa , Rohit Kumar , Sujeet Kumar	The Role of HCI in Modern Technology
24	14 JUNE'25 Evening Session	Session 4 Admin Block Conference Hall 2:30-4:00	278	Karishma Saini , Rohit Kumar , Shivam Nagar , Sujeet Kumar	The Evolution of Ransomware: In-Depth Analysis of Threat Development and Modern Defense Mechanisms
25			280	Arpita Bainsla	EMERGING IoT TECHNOLOGIES AND INNOVATIONS
26			296	Sheetal Singh, Khushi Singh ,Aritro Chakraborty, Harshal Singh	From Data to Diagnosis: A Systematic Review of AI/ML in Healthcare
27			299	Manisha Pandey , Saransh Prakash , Himanshu Singh	Fortifying the Cloud: AI-Driven Security Paradigms and Evolving Threat Defenses in Modern Cloud Computing
28			495	Shalabh Saxena,Aashu Kumar	Smart Traffic Management System Using IoT and Machine Learning
29			300	Nikhil Nishad , Tanisha , Ritika , Saransh Prakash	Hyper Personalization using AI: Elevate Fitness
30			463	Sagardeep Thakuria	AI and the Poetics of Loss: Grief, Memory, and Digital Resurrection in Indian Short Stories
31		Session 5 S-34 Board Room 2:30-4:00	306	Rakshita Verma , Ashi	Organizational Culture and Employee Stress: Examining Their Interconnection with Environmental Sustainability in the Workplace
32			307	Pallavi , Saransh Prakash , Rajnikant Kumar	HUMAN-AI COLLABORATION IN ORGANISATIONS :BRIDGING HUMAN INTUITION AND MACHINE INTELLIGENCE
33			326	Sujeet Kumar, Mukesh Kumar , Shivani Sharma	Securing the Internet of Things: A Survey on Lightweight Blockchain Framework for Enhancing Security and Privacy
34			327	Rakesh Dhar, Mukesh Kumar, Sujeet Kumar	MediSense AI - Smart Health Analysis System
35			502	Ruchika Gupta and Dr. NP Singh	ML model comparison for sentiment analysis across divers datasets
36			496	Shweta Singh	Mathematical Foundations of Explainable AI (XAI)
37			328	Shreeya Sampada Nayak, Vansh, Tushar, Yogesh Pilwan, Jyoti	Neural Implants & Brain-Computer Interfaces: Enhancing Human Intelligence or Violating Free Will?
38			333	Vikash Singh, Rakesh Bharati	A Vision-Based System for Detecting Driver Fatigue Using CNN and EAR/MAR Analysis
39		Session 6 G-29 Seminar Hall 2:30-4:00	341	Yash , Jiya	Enhancing Stock Purchase Strategies through Interpretable Decision Tree Machine Learning
40			342	Tushar Samaniya	An analysis of Graph Database in data modelling and analysis for a recommendation system
41			345	Yash Sharma, Ranveer Chaudhary , Dr.Stuti Saxena	Smart Ways to Manage Waste with AI and IOT A Review"
42			430	Sankeeta Jha, Vipul Sahay	Facial Recognition for Law Enforcement Applications
43			498	Prateek kashyap, Sagar Vats, Rahul Vashisth, Somit	AI-DRIVEN MODEL FOR ACCURATE CANCER DIAGNOSIS
44			349	Yash Patel,Vaibhav Chawla,Simran , Dr. Stuti Saxena	Mental Health Disorder Prediction using Machine Learning
45			395	Rupendra Singh Chahar	Analysis of different technique to a Survey of Energy-Efficient Wireless Communications
46			65	Vikas Kumar	A Comprehensive Survey on Classical and Modern Cryptographic Algorithms
47	15 JUNE'25 Morning Session-I	Session 7 Admin Block Conference Hall 10:00-11:30	411	Dr. Sindhu Kumar	Artificial Intelligence and Its Relevance in Mechanical Engineering from the Industry 4.0 Perspective
48			423	Chavi Kanvatra	Digital Transformation and Innovation among Women Micro-Entrepreneurs in Uttar Pradesh: A Thematic Content Analysis
49			484	Shallu Hassija	Classification and Comparison of Routing Protocols in Wireless Sensor Networks
50			442	Sunil Verma	Synthesis and Characterization of Aminophenyl (p-hydroxyphenyl)tellurium(IV) dichlorides
51			222	Gurman Walia	Advanced Chat Application Integerating Machine Learning For Sentimental Analysis
52			482	Dr Manisha Vashisht ,Joy Vashisht	Robust Classification of Traffic Signs using Rrelieff Feature Reduction Technique
53			451	Poonam Rani	A Novel Heuristic Approach for Initial Feasible Solution to the Classical Transportation Problem
54		Session 8 S-34 Board Room	427	Anuj Razdan	Semantics analysis of Expected Goals in Soccer Data using Machine Learning
55			457	Raghav Kumar Chaudhary	IOT Home Automation
56			444	Anupama Jain	The Influence of Corporate Social Responsibility on Consumer Behavior: A Comprehensive Review
57			95	Muskan , Laxmi	Wearable health predication
58			487	Garima Kanaujia	Comparison of Dynamic and Greedy Programming for 0/1 Knapsack Problem

59		10:00-11:30	483	Karishma Hanotiya	Applications of the Central Limit Theorem in Real-World Scenarios
60			468	Tanya Chauhan1, Richa Suryavanshi2, Mohd Bilal Khan3	Multi-Material 3D Printing: A New Horizon for Functional Engineering Components
61			325	Prince Saini	IoT-Based Real-Time Weather Monitoring System
62			92	Monika Bhardwaj	Underwater Wireless Sensor Networks
63	15 JUNE'25 Evening Session-II	Session 9 Admin Block Conference Hall 11:30-1:00	406	Sourav Bhagat , Ritu Kadyan	LIVER DISEASE PREDICTION USING MACHINE LEARNING TECHNIQUE
64			480	Vikas Kumar, Jitendra Singh	Algebraic Foundations of AES (Advanced Encryption Standard): Group Theory and Finite Field Applications in Symmetric Cryptography
65			97	Ekta Das ,Diksha	E-commerce website for shopping "AURA"
66			353	Kavita Singh, Sonal Kaushik ,Yogesh Pilwan	Review Paper: A Study of Different Controllers Used in Microgrids
67			489	SHALABH SAXENA	Domestic Payment Frauds in India (2022–2025): A Quantitative Analysis of Trends, Risk Indicators, and Policy Implications
68			428	Manisha	A Study on Sustainable Human Resourse Management
69			485	NISHA TANWAR	THE IMPACT OF REMOTE WORK ON EMPLOYEE PRODUCTIVITY AND WORK–LIFE BALANCE IN THE POST–COVID ERA
70			267	Mohini Gupta, S.Hassija	EMERGING TECHNOLOGIES RESHAPING INDUSTRIES
71			263	Arpita Bainsla	Revolutionizing Wireless Communication: AI & ML in the Era of 6G
72			458	Shital Prasad	ZnO based CO and CO2 Gas sensors
73		Session 10 S-34 Board Room 11:30-1:00	347	Gauri Panchal	A Deep Learning Framework for Stock Price Prediction Using PyTorch
74			71	Divyanshu Bhardwaj, Nikita, Vernika, Aarushgupta, Miss Tanya	Smart attendance system using face recognition
75			471	Sudesh Kumari	A Critical Analysis of Data Structure Utilization in Information Retrieval Models
76			486	Sunita	Food Waste Management System
77			357	Sujeet Kumar , Himanshu Singh , Harshal Singh, Rajesh Kumar	An Intelligent Plant Disease Recognition System Using Deep Learning: A CNN-Based Approach for Real-Time Diagnosis
78			324	Rohit	Data Analysis of E-commerce Sales UsingExceland Python
79			462	Anjali Negi	An Empirical Investigation of Work-Life Balance and Job Satisfaction Among Higher Education Faculty in India
80			455	Mukesh Kumar ,Prince Hooda	Policy Reforms and Investment Trends in India's Power Sector: A Path Toward Sustainable Growth
81			475	Dr Stuti Saxena	Artificial Intelligence in Education: Applications, Benefits, and Challenges
82			379	Sudesh Kumari	Analysis of Fault-Tolerant Techniques for Error Management in Network Communication
83			305	Kalpana , Karishma , Sujeet	5G and Internet of Things: Next-Gen Network Architecture

Echelon Institute of Technology, Faridabad

ETESM-2025Online Presentation

S.No	Date	Slot	Paper ID	Author Name	Title
1	14 JUNE'25 Afternoon Session	Session 11 12:00-1:30	48	Viomesh Singh, Omkar Kamble, Abhishek Pote, Tejas Pawar, Rushal Patil, S	A Comparative Analysis of DeepSeek, LLaMA, and Mistral: Architectural Innovations in Modern AI Models
2			50	Shweta Kambare, Omkar Kawthekar, Aayusha Kshirsagar, Devendra Kawad	T20 Score Prediction Using XGBoost: A Machine Learning Approach for Match Forecasting
3			70	Rakshit Dogra, Sonika Vasesi	An Open-Source Implementation of Audio Fingerprinting for Music Recognition
4			74	Ajay Sharma, Nandan Kumar, Surender	Building a Smart Chatting Platform for Social Networking:"Guftgu"
5			260	Shivanshu Shrivastava ,Chhagan Charan	Review of Battery Management System and SOC
6			80	Ravi Chaurasiya, Tushar Mahur, Mudassir ahmad muto	The Emergence of Personal Desktop Voice Assistants for Effortless Task Management
7			81	Diya Goswami, Sayantika Laskar	SkinSight: Design and Implementation of an Intelligent Skin Type Detection System
8		Session 12 12:00-1:30	86	Mr.Maulik Jadav, Dr.Indra Meghrajani	Understanding the Consumer Mindset: Key Behavioral Drivers of Patola Apparel Sales in Surendranagar
9			460	Pyare Prabhanshu, Neha Mishra, Shreya Singh, Preeti Gupta, Saurabh Kum	Bifacial Solar Photovoltaics Systems Design and Modelling
10			477	PRIYA SHUKLA, MOHIT SHUKLA	DATABASE-DRIVEN ENERGY MANAGEMENT IN ELECTRIC VEHICLES
11			466	Mr. Himank sharma	IoT and Smart Sensors for Structural Health Monitoring: Trends, Challenges, and Future Directions
12			89	Vimlesh Kumar Ray, Priyanka Goyal	Improved Paddy Leaf Disease Detection Model Using ML and AI
13			99	Vaishnavi, Jagdjsh Sahu	Redefining Management through Digital Transformation: Strategies for Sustainable Innovation
14			109	Pooja, Tanya Chauhan	Text to Flowchart Convertor
15			110	Utkarsh, Shivesh, Shivam, Ujjwal	Encoder-Decoder based fine-tuned model for Code Doubt Solver
16			123	Aditi Bhardwaj, Neena Batra	A Neural Network Based Framework for Real-Time Monitoring of Soil-less Urban Farms

17			125	Deepanshu singh, Rupendra chahar	Fingerprint Attendance System Using Arduino
18			132	Pavandeep Kaur, Parul Gogia, Aekansh Khandelwal, Rishabh Raj	Early disease detection using Artificial Intelligence
19		Session 1312:00-1:30	145	Tuneer Sen Sarma, Rupendra Singh Chahar	Gesture Vocalizer Using Arduino
20			452	Sandeep Yadav, Kaushal Kumar, Jarnail Singh	Progress and Prospects of Chromium-Based p-Type TCOs: Next-Generation Transparent Electronics
21			177	Tarun Kumar Gautam, Smriti, Shlok Mishra	A Wearable Revolution: Smart Spectacles with Real-Time Location Tracking
22			179	Sanjana Gupta, Vanshika Garg, Ujjwal Sahu, Dilip Bharti	Intelligent Brain Tumor Diagnosis with AI-Based Classification
23			180	Purushottam jatav, Farha Haneef	Machine Learning-Based Intelligent Crop Recommendation System
24			185	Shivali, Dr. Sandeep Kumar	ADVANCED SECURITY MECHANISMS FOR PROTECTING MOBILE DEVICES: A COMPREHENSIVE ANALYSIS OF THREATS AND COUNTER MEASURES
25			189	Vineet yadav, Shikaha zutshi	REAL-TIME SIGN LANGUAGE TRANSLATOR
26		Session 14 2:30-4:00	190	Prakhar Pandey, Priyanshu Sharma, Raj Tripathi, Pratibh Pratap Singh, Rav	Pixel to Page: Automatic HTML and CSS Code Generation from Webpage Screenshots Using AI
27			464	Arti kardam	Biocatalytic Synergy: Organic Chemistry Strategies for Sustainable Biochemical Transformation
28			193	Himanshu Kumar Singh, Bhanu Prakash Lohani	MentaLLaMA: Advancing Mental Health Insights with Instruction-Finetuned Large Language Models
29			355	Mr. Himank Sharma	Climate-Induced Drought, Food Insecurity, and Adaptation Governance: A Multiscale Review of Risks and Policy Responses in Africa and South Asia
30			203	Sudhir Singh, Manoj Joshi, Suman Chaudhary, Stuti Sachan	A HIGH FREQUENCY AND POWER EFFICIENT MEMRISTOR EMULATOR AND ITS APPLICATION
31			204	Deepanshu Joshi, Aman Pal, Dev Vrat Goswami, Kamal Kishor Upadhyay, S	Novel approaches to the Design and Optimization of Universal Shift Register with Reversible logic
32			207	Chetan Manral, Harshit Chauhan, Deepak Anand, Harsh Upadhyay	AUTOMATIC NUMBER PLATE RECOGNITION SYSTEM USING OCR
33			453	Kailash Narayan, Himank Sharma	Recent Advances and Policy Trends in Water Treatment Technologies in India.
34	14 JUNE'25 Evening Session	Session 15 2:30-4:00	213	Nikhil prasad	Fingerprint Attendance System Using Arduino
35			220	Tanuj Hastiyan, Rahul Kumar Gupta, Vaibhav Rana, Sushant Singh	Current Controlled Oscillator using FinFET

36			415	Jyoti Kumari, Anurag rishi	IMPACTS OF CYBER ATTACKS
37			225	Akshat Pande, Varun Dave, Aryan Vashisth, V.M. Gayathri	Nutri Heart with Chatbot
38			231	Amit Munjal, Mohit Agarwal, Anant Agarwal, Divya	Raspberry Pi-Based Real-Time Object Recognition for Smart Item Recovery
39		Session 16 2:30-4:00	236	Utkarsh Srivastava, Satyam Tripathi, Vipul Jain, Dr.Manoj joshi, Rahul kuma	MUX-Based Analog Front End for low strength bio-medical signals using MOS technology
40			239	Shivansh Shekhar Singh, Satvik Maheshwari, Shivang Saxena, Shivam Sair	Person Identification System using Deep Learning
41			289	Kavita Jadhav, Utkarsh Das, Samay Bhagat, Ajay Kusekar, Vaibhav Gayake	A Real-Time Video Dehazing System Using Boundary Constraint and Contextual Regularization
42			245	Anupam Tiwari, Shivam Kumar	Advanced Intelligent Teacher for Human beings using AI & ML
43			246	Ashutosh Mishra, Divyansh Mishra, Anurag Yadav	Generative AI-Based Chatbot for Personalized Education Support
44			76	Manju Rani, Dr. Puja Acharya, Dr. Vineet Dahiya, Dr. Bhavesh Vyas	A Carbon Assessment Framework for the Estimation of Carbon Footprint by the Usage of Liquified Petroleum Gas
45			262	Krati Garg, Kavya Srivastava, Pallavi Gupta, Mr. Ravi Kumar	AIML Based Approach to Solar Irradiance Prediction and Energy Suitability
46			481	Shalu yadav, anita singhrova, kusum dalal	Integration of Federated Learning with IoT in Real-World Applications: A Comprehensive Approach
47		Session 1710:00-11:00	268	Anirudh Chauhan, Madhumangal Kumar, R. Radha Krishnan	A Comprehensive Food Delivery System
48			269	Mridul Singla, Sumit Rawat, Hridyesh Kumar, Monika, Poonam Rani	A Survey Article on Reinforcement Learning in VANETs
49			270	Sharad Kumar, Vidushi Sharma, Monika Kashyap	Optimizing Urban Traffic Flow: Clustering-Based Congestion Detection and Junction Switching
50			275	Harsh Shukla, Sayantika Laskar	Design & Implementation of Sobel Edge Detection via Customized MAC IP in Vivado
51			107	Shivam, Neeraj, Richa suryavanshi	Prefab Hub project
52			294	Ayushi Singh, Dr. Irfanulla Khan	Climate Change and Human Research
53			309	Pallavi singh	Design and Simulation of Full Adder-based CMOS 4-2 Compressor using CMOS XOR-XNOR Logic
54			313	Harsh Rajput, Garima Bhardwaj	Blood Bank Management and Demand Prediction Using Random Forest Model

55	15 JUNE'25 Morning Session-I	Session 1810:00-11:00	315	Danish Akmal, Onkar Nath Thakur, Rakesh Kumar Tiwari, Vikash Gupta	Optimizing Machine Learning Models for Heart Attack Prediction Using Genetic Algorithm-Based Hyperparameter Tuning
56			319	Nagajayant Nagamani	Randomized Latent Vectors for Enhanced Reinforcement Learning Exploration
57			479	PRIYA SHUKLA	Design and Implementation of a Secure, Scalable, and Transparent E-Voting Framework for One Nation One Voting System using Blockchain and Distributed Databases
58			321	Nagajayant Nagamani	Machine Learning Approach to Forecasting Outcomes in Limited Overs Cricket
59			281	Divyaa Sriram, Nithyashree	Deepfake Detection System using Gradient-weighted Class Activation Mapping
60			87	Aditya	Blockchain Technology in Online Voting Systems
61			339	Ahan, Vimlesh Kumar, Priyanka Goyal	Random Forrest Based Man in The Middle Attack Detection in Advanced Metering Infrastructure
62		Session 1910:00-11:00	402	Asha , Anil Sangwan	Real time fault detection in electric vehicles using embedded system
63			405	Mohd Bilal Khan, Tanu	Smallest Linking Routes and ICT: Enabling Seamless Navigation and Digital Health Access
64			410	Manya kamra	Intelligent Voice Assistance for IoT Based Smart Home
65			413	yanvi joshi	AI, Big Data, and Their Impact on Multiple Domains
66			431	RONE, UMESH, Vinay Kumar Sharma	Enhancing Surface Roughness in the Taguchi Method for Turning Alloy Steel in Wet and Dry Environments
67			416	RONE	INVESTIGATIVE STUDIES ON THE ANALYSIS OF WASTE HEAT HARVESTING SYSTEMS BY A THERMOELECTRIC GENERATOR
68			417	UMA SHANKAR KASHYAP	Green Technologies and Sustainable Development: Challenges, Indicators, and Global Framework
69		Session 20 11:30-1:00	418	Rone	Studying the effectiveness of solar thermal collectors using nanofluid
70			420	Rone	MECHANICAL GENERATOR OPTIMISATION FOR SOLAR ENERGY CONVERSION
71			421	RONE	INVESTIGATION ON DOUBLE-PASS SOLAR AIR HEATER WITH INTERNAL HEAT STORAGE
72			146	Neeraj kumar	HAND GESTURE VOCALIZER FOR DUMB PEOPLE
73			433	Rone, Sandeep, Shivam Aggarwal	Enhancing A Microthermoelectric Generator's Efficiency For Solar Energy Conversion

74	15 JUNE'25 Morning Session-II		265	Aashi, Shobhit Jaiswal, Mandeep	Enhancing Facial Expression Analysis Using CNNs: Insights from ML and Deep Learning Comparisons
75			443	Mohd Bilal Khan, Tanya chauhan, Richa Suryavanshi	WIRELESS SENSOR NETWORKS: EXAMINATION AND SIMULATION OF ENERGY-SAVING METHODS
76			469	Saransh Prakash, Sunita	AUTOTRACK: INTELLIGENT NUMBER PLATE & SPEED ESTIMATION SYSTEM
77		Session 2111:30-1:00	356	Mr. Himank sharma	Integrated Policy Approaches to Disaster Risk and Climate Change Governance: A Global Review of Institutional Strategies, Techniques, and Community Resilience
78			450	Mr. Himank sharma	Virtual Reality in Civil Engineering: A Comprehensive Review of Applications, Challenges, and Future Trends
79			295	Dr Irfanullah Khan ,Dr Abu Bashar	Customer Experience and the Metaverse: Theoretical and Methodological Insights from TCCM Analysis
80			488	Prachi Dev	Routing Protocols in FANETs with Future Enhancements
81			474	Jitendra Singh	Mathematical Modeling of Tumor Growth and Immune System Interaction Incorporating Time Delays and Suppression Effects for Tumor Control
82			454	Mr. Himank sharma	Artificial Intelligence and Machine Learning in Civil Engineering: A Comprehensive Review of Applications, Challenges, and Future Trends
83			338	Nagajayant Nagamani	Deep Learning Architectures for Predictive Modeling in Financial Time Series
84			456	SHEFALI MADAN	Predicting and Understanding Dropout in Massive Open Online Courses (MOOCs)
85		Session 22 11:30-1:00	441	Sandeep Ojha, Alok Kumar Mishra	EXIT Chart Analysis and Performance Evaluation of Cooperative NOMA Systems
86			237	Abhishek Patel, Dr. Pankaj Verma	RTL-to-GDSII Flow Optimization for Low-Power 32-bit RISC-V Processor
87			439	RONE, MOHAMMAD ARSHAD, ANSHUMAN AGGARWAL	A COMPUTATION AND COMPARATIVE STUDY OF STRESS INDUCED ON GEARS REVIEW PAPER ON HELICAL GEAR ON FEM AND AGMA STANDARD
88			437	RONE, DEVDUTT, SHIVAM	A REVIEW OF A PAPER ON HOW COPPER AFFECTS DUCTILE IRON'S AUSTEMPERING BEHAVIOUR
89			436	RONE, ASHISH MALL, JAIVIR	A REVIEW OF THE DIESEL ENGINE'S CATALYTIC FUEL REFORMER INVESTIGATION
90			434	RONE, RAINEESH KUMAR SINGH, RAVINDER SINGH	Theoretical analyses of advanced hybrid solar thermoelectric generators
91			435	RONE, PRATHVI SINGH, JAGMAIL SINGH	Investigation on Waste Heat Recovery Performance for Thermoelectric Power Generation.
92			419	Dr. Vandana Agrawal	Study of Smart Solar Chips in India: A Review on Emerging Trends and Future Potential

Schedule of Events – Inauguration Ceremony

Date : 14.06.2025	
ime Slot (IST)	Process
10:00 AM	Opening Remarks (Ms Tanya), Tilak Ceremony
10:05 AM	Lamp Lighting & Saraswati Vandana (Ms Shefali)
10:10 AM	Welcome Address, by Director, EIT
10:15 AM	Briefing of Conference, by Dr Anurag Dwivewdi, Conference Chair
10:20 AM	Welcome of Chief Guest, Guest of Honor 1, Guest of Honor 2, (Planter), by Chairman/Director/General Chair/Conference Chair, EIT
10:25 AM	Words of Wisdom, by Chairman, EIT
10:35 AM	Address of Guest of Honor 1, Md Rihaan
10:45 AM	Address of Guest of Honor 2, Sh. DM Kiran
10:55 AM	Address of Chief Guest, Ms Prerna
11:05 AM	Souvenir Inauguration (All Guests), Dr. Manisha Vashisht
11:15 AM	Felicitation Of Chief Guest and all other Guests, Shawl and Memento
11:20 AM	National Anthem

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IEEE

International Conference on Emerging Trends in Engineering, Science and Management (ETESM-2025)

Paper ID:

Title:

Track:

Presenter Name:
Designation:

Date:

Outline

- Introduction
- Existing Approaches/Related Works
- Problems in Existing Approaches
- Proposed Methodology
- Results and Discussion
- Conclusions and Future Work
- References

References

[1] Tiwari, S., Singh, A., & Mishra, S. "Assessment of Crop Yield Patterns and Trends in Uttar Pradesh: A Longitudinal Study." Indian Journal of Agricultural Research, 53(3), 289-302 2019.

[2] Verma, S., Pandey, A., & Kumar, N. "Economic Analysis of Crop Yield and Farming Practices in Uttar Pradesh: A Comparative Study." Journal of Agribusiness Management, 18(1), 78-91, 2021.

[3] Singh, R.P., Yadav, A., & Kumar, A. "Impact of Agricultural Policies on Crop Yield: A Case Study of Uttar Pradesh." Agricultural Economics Research Review,

35(2), 178-191, 2020.

[4] Mishra, S.K., Singh, V., & Sharma, N. "Technological Interventions in Agriculture and Their Impact on Crop Productivity: A Review." Indian Farming, 68(5), 32-

40, 2018.

[5] Sharma, S., Gupta, R., & Verma, P. "Role of Extension Services in Promoting Sustainable Agriculture: Evidence from Uttar Pradesh." Journal of Extension Education, 31(2),112-125, 2019.

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Thu, May 29, 2025, 12:45 PM
Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest of Honor
To: <director@nitttrbpl.ac.in>
Cc: <director@eitfaridabad.co.in>

Respected Sir,

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we extend our invitation to you for the **International Conference on Emerging Trends in Engineering, Science** collaboration with the **IEEE Student Branch, EIT Faridabad**. The conference is scheduled to be held on **14th–15th June 2025** at our campus in

The primary objective of this conference is to bring together distinguished academicians, researchers, industry experts, and students from ac innovation in the rapidly evolving fields of engineering, science, and management.

We would be deeply honored to have your esteemed presence as the **Guest of Honor** at the **Inaugural Ceremony**, scheduled for **14th June 2025** the event and inspire all attendees.

Additionally, we kindly request a **message from your end for inclusion in the conference proceedings**, which will be shared with all participar greatly enrich the academic and visionary tone of the conference.

We sincerely look forward to your positive response and to the privilege of welcoming you to our campus.

Thanks & Regards

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Wed, May 28, 2025, 5:11 PM
Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest of Honor
To: <kiran_dm@sewabridge.com>
Cc: <director@eitfaridabad.co.in>

Respected Sir,

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we extend our invitation to you for the **International Conference on Emerging Trends** being organized by our institution in collaboration with the **IEEE Student Branch, EIT Faridabad**. The conference is **Faridabad, Haryana**.

The primary objective of this conference is to bring together distinguished academicians, researchers, industry experts cutting-edge research, and foster innovation in the rapidly evolving fields of engineering, science, and management.

We would be deeply honored to have your esteemed presence as the **Guest of Honor** at the **Inaugural Ceremony**, scl undoubtedly enhance the significance of the event and inspire all attendees.

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Sat, May 31, 2025, 12:12 PM
Subject: Invitation to Deliver Keynote Address at ETESM-2025 International Conference
To: giovanni.pau@unikore.it <giovanni.pau@unikore.it>, <director@eitfaridabad.co.in>

Respected Professor Pau,

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we extend to you a warm invitation to deliver a **Keynote Address** at the upcoming **Inte Science, and Management (ETESM-2025)**, scheduled to be held virtually on **June 14–15, 2025**.

Your name has been kindly recommended by **Dr. Jay Singh**, Professor & Head, Centre for Innovation in Learning & De Greater Noida. In recognition of your distinguished contributions to the field of engineering and your global academic im as one of the Keynote Speakers for this prestigious event.

We are confident that your participation and insights would greatly enrich the academic dialogue and inspire participant address our international audience.

We sincerely hope you will consider our invitation, and we look forward to your kind confirmation.

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Sat, May 31, 2025, 12:02 PM
Subject: Invitation to Deliver Keynote Address at ETESM-2025 International Conference
To: dakarras@uoa.gr <dakarras@uoa.gr>, <director@eitfaridabad.co.in>

Respected Professor D. A. Karras,

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we extend to you a warm invitation to deliver a **Keynote Address** at the upcoming **Inte Science, and Management (ETESM-2025)**, scheduled to be held virtually on **June 14–15, 2025**.

Your name has been kindly recommended by **Dr. Jay Singh**, Professor & Head, Centre for Innovation in Learning & De Greater Noida. In recognition of your distinguished contributions to the field of engineering and your global academic im as one of the Keynote Speakers for this prestigious event.

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Mon, Jun 9, 2025, 3:13 PM
Subject: Invitation to Serve as Speaker and Session Chair at ETESM-2025
To: <sn.rajan@imsec.ac.in>
Cc: <director@eitfaridabad.co.in>

Dear Sir,

Greetings from Echelon Institute of Technology, Faridabad!

It is our pleasure to cordially invite you to participate in the **International Conference on Emerging Trends in Engineer** be held on **June 14–15, 2025**.

We would be honored to have you serve as a **Speaker and Session Chair** at the conference. We kindly request your esteer deliver an expert talk and chair one of the technical sessions.

Your insights and words of inspiration would be of immense value to our participants and would greatly contribute to the s

We sincerely hope you will accept our invitation. Kindly confirm your participation at your earliest convenience and share

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Tue, Jun 10, 2025, 11:55 AM
Subject: Invitation to Serve as Speaker and Session Chair at ETESM-2025
To: <niteshwr1994@gmail.com>
Cc: <director@eitfaridabad.co.in>

Dear Sir,

Greetings from Echelon Institute of Technology, Faridabad!

It is our pleasure to cordially invite you to participate in the **International Conference on Emerging Trends in Engineer** be held on **June 14–15, 2025**.

We would be honored to have you serve as a **Speaker and Session Chair** at the conference. We kindly request your esteer **P.M.**, to deliver an expert talk and chair one of the technical sessions.

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Tue, Jun 10, 2025, 12:37 PM
Subject: Invitation to Serve as Speaker and Session Chair at ETESM-2025
To: Punit Chaubey <pkcmar@gmail.com>
Cc: <director@eitfaridabad.co.in>

Dear Sir,

Greetings from Echelon Institute of Technology, Faridabad!

It is our pleasure to cordially invite you to participate in the **International Conference on Emerging Trends in Engineer** be held on **June 14–15, 2025**.

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Mon, Jun 9, 2025, 3:23 PM
Subject: Invitation to Serve as Session Chair at ETESM-2025
To: <assoc.deanacademics@lingayasvidyapeeth.edu.in>
Cc: <director@eitfaridabad.co.in>

Dear Sir,

Greetings from Echelon Institute of Technology, Faridabad!

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Tue, Jun 10, 2025, 11:46 AM
Subject: Invitation to Serve as Speaker and Session Chair at ETESM-2025
To: <saurabh@iert.ac.in>, Dr. Saurabh Kumar <skeediet@gmail.com>
Cc: <director@eitfaridabad.co.in>

Dear Sir,

Greetings from Echelon Institute of Technology, Faridabad!

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Date: Tue, Jun 10, 2025, 12:06 PM
Subject: Invitation to Serve as Speaker and Session Chair at ETESM-2025
To: <madhu.bca.tutorials@gmail.com>
Cc: <director@eitfaridabad.co.in>

Dear Ma'am,

Greetings from Echelon Institute of Technology, Faridabad!

It is our pleasure to cordially invite you to participate in the **International Conference on Emerging Trends in Engineer** be held on **June 14–15, 2025**.

We would be honored to have you serve as a **Speaker and Session Chair** at the conference. We kindly request your esteer **A.M.**, to deliver an expert talk and chair one of the technical sessions.

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Tue, Jun 3, 2025, 1:18 PM
Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest
To: <dirdcollege123@gmail.com>
Cc: <director@eitfaridabad.co.in>

Respected Dr. Suman Lata ,

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we inform you about the upcoming **International Conference on Emerging Trends in En** organized by our institution in collaboration with the **IEEE Student Branch, EIT Faridabad**. The conference is sch **Faridabad, Haryana**.

The conference aims to bring together eminent academicians, researchers, industry professionals, and students from arour foster innovation in the dynamic domains of engineering, science, and management.

We would be deeply honored by your esteemed presence as the **Guest** at the **Inaugural Ceremony**, which will take pla immense value to the event and serve as an inspiration to all participants.

We sincerely hope for a positive response and would be privileged to welcome you to our campus.

Thanks & Regards
Prof. (Dr.) Anurag Dwivedi

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Tue, Jun 3, 2025, 2:23 PM
Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest
To: <info@awadh.org.in>
Cc: <director@eitfaridabad.co.in>

Respected **Dr. Mandira Gupta** ,

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we inform you about the upcoming **International Conference on Emerging Trends in En** organized by our institution in collaboration with the **IEEE Student Branch, EIT Faridabad**. The conference is sch **Faridabad, Haryana**.

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We sincerely hope for a positive response and would be privileged to welcome you to our campus.

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Dean - Research and Development

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Date: Tue, Jun 3, 2025, 2:32 PM
Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest
To: <info@kamalinstitute.com>
Cc: <director@eitfaridabad.co.in>

Respected Dr. Priti Srivastava ,

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we inform you about the upcoming **International Conference on Emerging Trends in En** organized by our institution in collaboration with the **IEEE Student Branch, EIT Faridabad**. The conference is scl **Faridabad, Haryana**.

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Dean - Research and Development

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Tue, Jun 3, 2025, 3:07 PM
Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest
To: <nimh.director@gmail.com>
Cc: <director@eitfaridabad.co.in>

Respected Maj. Dr. B. V. Ram Kumar (R),

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we inform you about the upcoming **International Conference on Emerging Trends in En** organized by our institution in collaboration with the **IEEE Student Branch, EIT Faridabad**. The conference is sch **Faridabad, Haryana**.

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Tue, Jun 3, 2025, 3:11 PM
Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest
To: <director@bcihmct.ac.ini>
Cc: <director@eitfaridabad.co.in>

Respected Dr. Bharti Dimri ,

Greetings from Echelon Institute of Technology, Faridabad!

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Tue, Jun 3, 2025, 3:14 PM
Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest
To: <admin@rdias.ac.in>
Cc: <director@eitfaridabad.co.in>

Respected **Prof.(Dr.) Raman Garg** ,

Greetings from Echelon Institute of Technology, Faridabad!

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From: **Dean Research** <deanresearch@eitfaridabad.co.in>
Date: Tue, Jun 3, 2025, 3:16 PM
Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest
To: santharidasscollege@gmail.com <santharidasscollege@gmail.com>
Cc: <director@eitfaridabad.co.in>

Respected **Dr. Neelam Soni** ,

Greetings from Echelon Institute of Technology, Faridabad!

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Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest
To: <tips@tips.edu.in>
Cc: <director@eitfaridabad.co.in>

Respected Prof. (Dr.) Ashutosh Agarwal,

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we inform you about the upcoming **International Conference on Emerging Trends in En** organized by our institution in collaboration with the **IEEE Student Branch, EIT Faridabad**. The conference is sch **Faridabad, Haryana**.

The conference aims to bring together eminent academicians, researchers, industry professionals, and students from aroun foster innovation in the dynamic domains of engineering, science, and management.

We would be deeply honored by your esteemed presence as the **Guest** at the **Inaugural Ceremony**, which will take pla immense value to the event and serve as an inspiration to all participants.

We sincerely hope for a positive response and would be privileged to welcome you to our campus.

Thanks & Regards
Prof. (Dr.) Anurag Dwivedi
Dean - Research and Development

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Subject: Invitation to Grace the Inauguration of ETESM-2025 as Guest
To: <vditrd@yahoo.com>
Cc: <director@eitfaridabad.co.in>

Respected Dr. Prince Parmar ,

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Ref No. - EIT/ETESM-2025/31

Date: 09/06/2025

To
Dr. Ravi Sharma
Associate Professor
School of Computer Science and Engineering, GreaterNoida, Uttar Pradesh, India
Galgotias University

Subject: Invitation to Serve as Speaker and Session Chair at ETESM-2025

Dear Sir,

Greetings from Echelon Institute of Technology, Faridabad!

It is our pleasure to cordially invite you to participate in the **International Conference on Emerging Trends in Engineering, Science, and Management (ETESM-2025)**, scheduled to be held on **June 14–15, 2025**.

We would be honored to have you serve as a **Speaker and Session Chair** at the conference. We kindly request your esteemed presence on **June 14, 2025, at 02:30 – 04:00 P.M.**, to deliver an expert talk and chair one of the technical sessions.

Your insights and words of inspiration would be of immense value to our participants and would greatly contribute to the success of the event.

We sincerely hope you will accept our invitation. Kindly confirm your participation at your earliest convenience and share the title of your talk along with a brief biodata.

Looking forward to your positive response.

Warm regards,

Anurag

Dr. Anurag Dwivedi
Dean (R&D)
Echelon Institute of Technology, Faridabad
deanresearch@eitfaridabad.co.in | 9453760190

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Respected Dr. Kashinath Samagandi ,

Greetings from Echelon Institute of Technology, Faridabad!

It is with great pleasure that we inform you about the upcoming **International Conference on Emerging Trends in En** organized by our institution in collaboration with the **IEEE Student Branch, EIT Faridabad**. The conference is sch **Faridabad, Haryana**.

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This is to certify that **Dr. Anand Singh** from **School of Computer Science & Engineering IILM University, Greater Noida** served as a **Session Chair** during the **International Conference on Emerging Trends in Engineering, Science and Management (ETESM-2025)**, organized by **Echelon Institute of Technology**, Faridabad, Haryana, India, held on **June 14–15, 2025**.

Dr. Anurag Dwivedi
Conference Chair (ETESM-2025)

Dr. Rajesh Kumar Singh
General Chair (ETESM-2025)

Dr. Sudarshan Goswami
Director, EIT Faridabad

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