

## 2<sup>nd</sup> International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2025)

05<sup>th</sup> - 06<sup>th</sup> June, 2025

Organised by  
K J Somaiya School of Engineering

### Program Schedule

Program	Day 1: 05 <sup>th</sup> June 2025	Venue
	Time	
Registration and breakfast	08:00 AM to 09:45 AM	<b>Registration</b> - Entry to Auditorium <b>Breakfast</b> - A-225
Inauguration	10:00 AM to 10:45 AM	Auditorium
Plenary Talk	10:45 AM to 11:45 AM	Auditorium
Poster Display	Throughout the conference	Outside Auditorium
Tea Break	11:45 AM to 12:00 Noon	Outside Auditorium
Oral Presentation (Parallel Session 1)	12:00 Noon to 02:00 PM	A-314 A-315 A-202 B-107
Lunch	02:00 PM to 02:45 PM	A-225
Keynote Talk - 1	02:45 PM to 03:30 PM	Auditorium
Oral Presentation (Parallel Session 2)	03:30 PM to 05:30 PM	A-314 A-315 A-202 B-107
Conference Photo	05:30 PM to 05:45 PM	Entry to Aryabhata Building
High Tea	05:45 PM to 06:00 PM	A-225
<b>End of Day One Schedule</b>		
Program	Day 2: 06 <sup>th</sup> June 2025	Venue
	Time	
Registration and Breakfast	08:00 AM to 09:00 AM	<b>Registration</b> - Entry to Auditorium <b>Breakfast</b> - A-225
Oral Presentation (Parallel Session 3)	09:00 AM to 11:00 AM	A-314 A-315 A-202 B-107
Tea break	11:00 AM to 11:15 AM	Outside Auditorium
Keynote Talk - 2	11:15 AM to 12:00 Noon	Auditorium
Keynote Talk - 3	12:00 Noon to 12:45 PM	Auditorium
Keynote Talk - 4	12:45 PM to 1:10 PM	Auditorium
Valedictory	01:20 PM to 02:00 PM	Auditorium
Lunch	02:00 PM to 02:45 PM	A-225
<b>End of the Conference Schedule</b>		
Auditorium: Smt. Sakarben Karamshi Somaiya Sabhagruha A- Aryabhat Building; B- Bhaskaracharya Building		

## ICTEAH 2025 Technical Program Schedule

### Plenary Talk

Date and Time	Talk	Venue
05 <sup>th</sup> June 2025 10:45 AM to 11:45 AM	<b>Plenary Talk:</b> <b>Title:</b> Quantum Computation for Energy <b>Speaker:</b> Dr. Sudhir Ranjan Jain Professor of Eminence, Somaiya Vidyavihar University. Visiting Professor, UM-DAE Centre for Excellence in Basic Sciences	Smt. Sakarben Karamshi Somaiya Sabhagruha

### Parallel Session 1: Mechanical and Allied-I

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
05 <sup>th</sup> June 2025 12:00 Noon to 02:00 PM	<b>Session Chair:</b> Dr. Nilaj Deshmukh, Professor, Fr. C. Rodrigues Institute of Technology, Vashi. <b>Venue: A-314</b>			
	Healthcare	82	Insole Design for Abnormality Detection and Fall Risk Assessment using Gait Analysis	Krutuja Bundeale (krutuja.bundeale@spit.ac.in)
	Healthcare	129	Influence of body weight on the Knee Joint Cortical Bones using Finite element analysis	Priyanka Patil (priyankapatil@somaiya.edu)
	Healthcare	241	Optimization & Comparative Analysis of Scaffold Designs for Tissue Engineering Using Finite Element Analysis	RUPESH V. KHARBE (rupesh.kharbe@somaiya.edu)
	Healthcare	256	Hemodynamic Analysis for Atherosclerotic Artery	Deepraj Mokal (deepraj.m@somaiya.edu)
	Healthcare	302	Finite Element Analysis and Optimization of Knee Brace Linkages Under Varied Support and Material Conditions	Vishvas Raghunath Pudale (vishvas.p@somaiya.edu)
	Healthcare	327	A Comprehensive Review of Biomaterials for Biomedical Applications	Kavita Kumari Thakur (kavitakumari.t@somaiya.edu)
	Healthcare	313	Stress Analysis of Functionally Graded Blood Vessel of a Human: A Case Study using Finite Element Analysis	Dinesh Padmakar Chawde (dineshc@somaiya.edu)

### Parallel Session 1: IT and Allied-I

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
05 <sup>th</sup> June 2025 12:00 Noon to	<b>Session Chair:</b> Dr. Shubhangi Vaikole, Professor and HOD, Fr. C. Rodrigues Institute of Technology, Vashi. <b>Venue: A-315</b>			
	Healthcare	11	Low-cost App-Based Solution for Skin Lesion Detection using Deep Learning	Sarfraz Shaikh Atharva Chetan Tambe Asmi Parag Takle (shaikhsarfraz1426@gmail.com)

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<b>02:00 PM</b>	Healthcare	29	XMAL: Explainable Machine Learning for Improving Alcoholism Detection using EEG Signals	Vedant Chandrashekhar Chandan (vedantchandani123@gmail.com)
	Healthcare	30	Impact of Inception based CNN in Brain Tumor Detection with Optimized Hyperparameter Tuning	Sonia Jain (sonia016mtcse23@igdtuw.ac.in)
	Healthcare	44	Exploring the Efficacy of Ensemble Learning and Deep Neural Networks in Diabetes Disease Detection	Mritunjaykumar Ojha (mritunjay.ojha@fcrit.ac.in)
	Healthcare	51	ECHO: Empowering College Health Operations Through Artificial Intelligence - A Mental Wellness Support System	Ishani Nirmal Bhadlikar Pranay Gautam Maniar Hamza Bubere Pranay Gautam Maniar (ishanibhadlikar@gmail.com)
	Healthcare	334	Machine Learning-Based Disease Prediction System Using Symptom Analysis	Aastha ketan Kataria (aastha.k@somaiya.edu)
	Healthcare	68	Computer-Aided Detection in Mammography: A Comprehensive Review of Pectoral Muscle Segmentation Methods and BI-RADS Classification Systems	Suhel Sidharth (shivambhosle270903@gmail.com)
	Healthcare	83	AI-Driven Predictive Maintenance for Biomedical Devices: Enhancing Reliability and Efficiency in Healthcare	Deepali Shrikhande (deepalishrikhande6@gmail.com)

**Parallel Session 1: IT and Allied-II**

<b>Date and Time</b>	<b>Track</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Presenting/Registered Authors (Presenters Email)</b>
<b>05<sup>th</sup> June 2025  12:00 Noon to 02:00 PM</b>	<b>Session Chair:</b> Dr. Jayant Gadge, Thadomal Shahani Engineering College, Mumbai. <b>Venue:</b> A-202			
	Agriculture	42	Comparative study on traditional manual checking methods and machine learning based checking methods for Pomegranate plant leaf disease detection	shivappa M Metagar (shivametagar@gmail.com)
	Agriculture	85	A ML Technique for Crop Ailment Detection utilizing Image Processing and Feature extraction	Arnav Tripathi (arnav.tripathi@somaiya.edu)
	Agriculture	97	Deep Learning -Based Automated Leaf Counting for Sorghum Phenotyping	Dr. Suchitra Mohan Patil (suchitrapatil@somaiya.edu)
	Agriculture	122	Enhanced Disease Detection in Cucumber Plants Using VGG16-Based Deep and Transfer Learning	Mrs.Manisha Prakash Dumbre (mansiddhi@gmail.com)
	Agriculture	135	Comparative Analysis of Machine Learning Models for Plant disease classification	Harsh Mishra (mishra.h@somaiya.edu)
	Agriculture	170	Advances in Soil Nutrient Sensing Technologies for Precision Agriculture: A	Sushant Sukhadeo Gawade (sushant.gawade@somaiya.edu)

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			Comprehensive Review	
	Agriculture	234	Analyzing the Performance of Various Machine Learning Models for Fertilizer Recommendation	Mahak Nazir (mahak.nazir@somaiya.edu)
	Agriculture	324	Cotton Leaf Disease Detection System for Precision Pest Management in Crops using Computer Vision and Machine Learning	Akshat yadav (akshat.y@somaiya.edu)

**Parallel Session 1: Electronics and Allied-I**

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
<b>05<sup>th</sup> June 2025</b> <b>12:00 Noon to 02:00 PM</b>	<b>Session Chair:</b> Dr. Amol Deshpande, Sardar Patel Institute of Technology, Mumbai. <b>Venue:</b> B-107			
	Agriculture	18	Satellite Image Analytics for Tree Enumeration for Diversion of Forest Land	Saniya Kakade (saniya21it@student.mes.ac.in)
	Agriculture	34	IoT in Pisciculture: Revolutionizing Fish Farming for Cleaner Water Ecosystem	Dr Sarika Bukkawar (sarika.bukkawar@sakec.ac.in)
	Agriculture	48	Long-term Satellite Data Analysis of Spatio-Temporal Variations in Agriculture Practices: Impacts of "Land-use/Land-cover" in Arid Zone of Rajasthan	Pratiksha Dubey (pratikshadubey2207@gmail.com)
	Agriculture	78	Segmentation of drone/satellite/smartphone-captured plant and vegetable images using Image Processing for Quality Assessment	Akshayya Sawant (akshayya.sawant@gmail.com)
	Agriculture	142	Image-Based Tree Enumeration and Classification for Forest Land Diversion Planning	Tanmay Kachare (tanmayck2002fcrit@gmail.com)
	Agriculture	181	Ecobot: Pest Detection Alert System-Safeguarding Against Infestations	KRUTI SHAH, Preksha Patel (krutishah957@gmail.com)
	Agriculture	230	IoT-Based Agricultural Crop Recommendation System for Optimizing Farmer Profits in Rural Maharashtra	Jahnvee Sharma (jahnvee.s@somaiya.edu)
	Agriculture	317	IoT-Driven Digital Twin for Real-Time Leakage Detection in Smart Water Networks	Vaibhav S. Narwane (vsnarwane@somaiya.edu)

Time	Keynote Talk	Venue
<b>05<sup>th</sup> June 2025</b> <b>02:45 PM to 3:30 PM</b>	<b>Title:</b> Application of AI for Soft Tissue movement in Orthodontics <b>Speaker: Dr. Biswajeet Sarkar</b> Professor, Department of Industrial Engineering, Yonsei University, South Korea	Smt. Sakarben Karamshi Somaiya Sabhagruha

### Parallel Session 2: Mechanical and Allied-II

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
05 <sup>th</sup> June 2025 03:30 PM to 05:30 PM	<b>Session Chair:</b> Dr. Amol Kamble, Amity School of Engineering and Technology, Mumbai <b>Venue: A-314</b>			
	Energy	52	CFD modelling and analysis of a two-phase closed thermosyphon charged with Distilled Water.	RAJENDRA SHAMRAW SARGAR (rajendra.sargar@ritindia.edu)
	Energy	127	Investigation of Radiative Reflective Coatings for Various	SURAJKUMAR SURESH CHULLIPARAMBIL (surajk20mech@student.mes.ac.in)
	Energy	148	System-Level Modeling and Analysis of a PEM Fuel Cell Electric Vehicle Using Simulink	B. Aditya Chandrashekar (a.chandrashekar@somaiya.edu)
	Energy	155	Experimental Studies on Micro-Channelled Liquid Cooled Battery Thermal Management System for Li-Ion Battery	Akash Bidwaik (akash.bidwaik@somaiya.edu)
	Energy	185	Endothermic Reaction-Based Cooling for Portable Beverage Can	Prayas Anandrao Gondane (prayas.gondane22@vit.edu)
	Energy	208	Parametric Numerical Analysis of Heat transfer in Forced draft Evaporative Cooling Tower	Mr. Ekanath Meshram (ermeshram_m23@me.vjti.ac.in)
	Energy	211	Computational analysis of ceramic faced epoxy-carbon and epoxy-glass laminates against high energy impact	Saurabh Sanjay Tawde (suarabh.t@somaiya.edu)
	Energy	117	Design and Fabrication of PCM based Solar Thermal Energy Storage system	Badal Kudachi (badal.kudachi@fcrit.ac.in)

### Parallel Session 2: IT and Allied-III

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
05 <sup>th</sup> June 2025 03:30 PM to 05:30 PM	<b>Session Chair:</b> Dr Anjali Yeole, Vivekanand Education Society's Institute Of Technology, Mumbai <b>Venue: A-315</b>			
	Healthcare	93	AI based Improved Gait Analysis in Genu Valgum Patients	Siddharth Ganpati Shinde (sgshinde1962003@gmail.com)
	Healthcare	143	MsBiCNet: Multi-Stage Binary-Cascade CNN for Improving Skin Cancer Detection	Achyut Maheshka (maheshkaachyut@gmail.com)
	Healthcare	154	Generative Deep Learning for Drug Discovery	Rugved Palodkar (rugved.palodkar@somaiya.edu)
	Healthcare	156	Integrating AI and Web Technologies for Effective Dissemination of Ksharasutra Practices in Predictive Anorectal Care	Dr. Krantee M. Jamdaade Dr. Harshali Yogesh Patil Swarali Manish Yadav (krantee@somaiya.edu)
	Healthcare	60	Risk analysis in Healthcare Industry: Leveraging Monte	SONIA MAHENDRA POL (soniapol.11.pisces@gmail.com)

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			Carlo, Markov chains and Preference Matrix Models	
	Healthcare	166	Enhancing Urban Elderly Healthcare with Generative AI: A Virtual Medical Assistant for Remote Consultation	Mrunmayi Joshi (mrunmayi.j@somaiya.edu)
	Healthcare	167	Multimodal Learning for Skin Cancer Classification: A Feature Fusion Approach using Dermoscopic Images and Patient Metadata	Saurin Savla (saurin.savla@gmail.com)
	Healthcare	174	PCOS DETECTION	Ashley James (ashleyjames6334@gmail.com)

**Parallel Session 2: IT and Allied-IV**

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
<b>05<sup>th</sup> June 2025</b> <b>03:30 PM to 05:30 PM</b>	<b>Session Chair:</b> Dr. Sunil Wankhede, MCT <sup>SS</sup> Rajiv Gandhi Institute of Technology, Mumbai <b>Venue: A-202</b>			
	Healthcare	216	DeepPET-3D: A 3D Convolutional Neural Network for Early Detection of Alzheimer's Disease Using 18F-FDG PET Imaging	Aastha ketan Kataria (aastha.k@somaiya.edu)
	Healthcare	228	Explainable AI: Enhancing Human Understanding of Machine Intelligence Systems	Adhyan Suvarna (adhyan.s@somaiya.edu)
	Healthcare	229	A Comprehensive Review of Multimodal Techniques for Early Detection of Minor Strokes	Simoni Savani (simoni.s@somaiya.edu)
	Healthcare	232	Comparative Analysis of Segmentation Techniques used for segmentation of Leukemia Cells from Blood Smear images	Ratnamala Mantri (ratnakumarsudhir@gmail.com)
	Healthcare	235	Enhancing Ocular Disease Detection: Integrating Squeeze-and-Excitation Networks with Transfer Learning	Dr. Nilkamal P. More (neelkamalsurve@somaiya.edu)
	Healthcare	247	Beyond Transformers in Healthcare: Advancing Cross-Lingual Sentiment Analysis of Medical Reviews with SHAP-Based Interpretability	Pushparaj Devadiga (pushparaj.d@somaiya.edu)
	Healthcare	248	Breast Cancer Survival Prediction Using Minority Oversampling for Machine Learning Techniques	NIRMIT SHAH (nirmit.shah@somaiya.edu)

**Parallel Session 2: Electronics and Allied-II**

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
<b>05<sup>th</sup> June 2025</b>	<b>Session Chair:</b> Dr. Ravindra Duche, Professor, Lokmanya Tilak College of Engineering, Navi Mumbai. <b>Venue: B-107</b>			
	Healthcare	101	Estimation of Foot Progression	Prathamesh Vaidya

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June 05<sup>th</sup> -06<sup>th</sup> 2025, K J Somaiya School of Engineering, Vidyavihar, Mumbai**

<b>03:30 PM to 05:30 PM</b>			Angle Using MediaPipe BlazePose: A Pilot Study	(prathameshvaidya45@gmail.com)
	Healthcare	126	ParalyzeAssist: A Smart Wearable Solution for Paralysis	Priya Anand Moolya, SAKSHI GANIGA, Shreyas Vikas Hundekar (moolyaapriya19@gmail.com)
	Healthcare	220	Optimizing Robotic Paths for Contactless Drug Delivery in Healthcare Using PCHMM	Layba Mahin Kanija Parvin Sheikh (laybamahin.s@somaiya.edu)
	Healthcare	226	Statistical Evaluation of Prosodic Speech Features for Dementia Detection	Madhura Amey Pednekar (madhura.ap@somaiya.edu)
	Misc.	240	Enhanced Indoor Drone Navigation: A Robust AprilTag- Based Self-Localization System	Jasraj Anil Bherwani (ninad@somaiya.edu)
	Misc.	260	Design and Performance Analysis of Low-Cost DIY Submarine Prototypes: Comparing Tethered and Untethered Control Systems in Shallow Water Environments	Aaboli Shravani Ganesh Shinde (aaboli.s@somaiya.edu)
	Misc.	288	Advancements in Small-Scale Autonomous Vehicle Systems: A Systematic Review of Perception, Localization, and Navigation Technologies	Prajakta Salunkhe (ppsalunkhe_p21@ce.vjti.ac.in)

**Parallel Session 3: Mechanical and Allied-III**

<b>Date and Time</b>	<b>Track</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Presenting/Registered Authors (Presenters Email)</b>
<b>06<sup>th</sup> June 2025 09:00 AM to 11:00 AM</b>	<b>Session Chair:</b> Dr, Nitin Gulhane, Professor, Veermata Jijabai Technological Institute, Mumbai <b>Venue: A-314</b>			
	Energy	227	Numerical Analysis of High Energy Impact on Glass/Carbon Fiber Reinforced Composites using Abaqus	ROHITKUMAR CHAURASIA (rohitkumar.c@somaiya.edu)
	Energy	250	Comparative analysis of radiative heat flux using ASHRAE correlations and ANSYS simulations for cooling applications	Vinit Katira (vinit.katira@somaiya.edu)
	Energy	354	Performance assessment of Vertical Bifacial Photovoltaic systems under influence of tilted symmetric flat reflectors.	HASEEN MUNEERODDIN SHAIKH (haseen_shaikh@spce.ac.in)
	Energy	88	Design of a solar parabolic dish collector for medical waste disposal	Swati P Badgujar (bbswatis@gmail.com)
	Energy	355	A Comparative Review of Air Filter Materials for Indoor Air Pollution Control	Yunus Yusuf Dalal (yunus.dalal@somaiya.edu)
	Energy	180	Precision Quality Control: Design and Implementation of an Automated Defect Detection System for Industrial Applications	Priyanshi Varshney, Presha Monga, Anshuli Ajay Chikhale (p.varshney@somaiya.edu)
	Energy	291	Influence of Ply Orientation and Laminate Thickness on	Saurabh Sanjay Auti saurabh.auti@somaiya.edu



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			Composite Structures	
	Energy	217	Mathematical Modelling and Simulation Study of PEM Electrolyzer for Hydrogen Production	DR. SHIVANGI THAKKER (shivangiruparel@somaiya.edu)

**Parallel Session 3: IT and Allied-V**

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
<b>06<sup>th</sup> June 2025</b> <b>09:00 AM to 11:00 AM</b>	<b>Session Chair:</b> Dr. V. B. Nikam, Veermata Jijabai Technological Institute, Mumbai <b>Venue: A-315</b>			
	Healthcare	273	Computer Vision For Rapid Detection Of Blood Cell Abnormalities:An Edge Detection And Morphological Analysis Approach	Shreya Santosh Shetty (shreya21@somaiya.edu)
	Healthcare	281	Surface EMG-Based Real-Time Detection of Lower Limb Activities Using Machine Learning	Abhiroop Padate (abhiroop.p@somaiya.edu)
	Healthcare	329	Enhancing Healthcare Predictions Amidst Class Imbalance: A Case Study Approach	Swati Vaibhav Narwane (swati29narwane@gmail.com)
	Healthcare	59	Markov Chain Simulation for Pharmaceutical Medicine Inventory Optimization amidst Pandemic Conditions: Analysing ABC And VED Inventory Policies	SONIA MAHENDRA POL (soniapol.11.pisces@gmail.com)
	Healthcare	348	Artificial Intelligence in Liver Cirrhosis: A Model for Stage Classification	Prof. Sneha R. Burnase (sneharburnase@gmail.com)
	Agriculture	342	Crop yield estimation using biophysical variables: A case study of Sabarkantha district, Gujarat, India	GAURI SANDEEP DESHPANDE (gaurideshpande127@gmail.com)
	Agriculture	353	Rotten and Fresh Citrus Fruit Classification Using Deep Learning	Durgesh Prakash Zaware (durgesh.z@somaiya.edu)
	Agriculture	331	Deep Learning for Wildfire Detection Using Remote Sensing Images	Nitish Ramsajivan Yadav (nitish.yadav@somaiya.edu)

**Parallel Session 3: IT and Allied-VI**

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
<b>06<sup>th</sup> June 2025</b> <b>09:00 AM to 11:00</b>	<b>Session Chair:</b> Dr. Sanjay Shitole, SNTD Women's University, Mumbai <b>Venue: A-202</b>			
	Energy	50	Enhancing Cybersecurity in Energy IoT Networks: A Machine Learning Algorithms on Data Tampering	Muslim Mansoor Rangwala (muslim.r@somaiya.edu)
	Energy	159	AI-Driven PM2.5 Prediction in India: A Machine Learning	JAYA TAHIL JESWANI (jaya.jeswani@somaiya.edu)



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<b>AM</b>			Approach Using XGBoost and Ensemble Models	
	Energy	162	AI for Smart Energy Generation and Distribution in India	Insha Khan (insha.khan@vit.edu.in)
	Energy	266	Implementing and Comparing Imputation Techniques for Incomplete Air Pollution Dataset: Mumbai and Navi Mumbai	Poonam Rashmi Manohar Bhogle (poonambhogale@somaiya.edu)
	Energy	336	A Hybrid PoS-PoET Consensus Mechanism for Energy-Efficient and Scalable Blockchain Systems	Abhijeet A. Pasi (abhijeetpasi2008@gmail.com)
	Energy	349	Sustainable Housing Society: Design and Prototype	JOSHI UDAY BAPUJI (udayjoshi@somaiya.edu)
	Energy	56	AI-based Intrusion Detection System in IoT-based Smart Renewable Energy System	Dr. Kiruthika. B (drkiruthika@atharvacoe.ac.in)
	Energy	279	Analyzing Energy consumption and Energy prediction of machine learning models: A case study with Finland electricity consumption dataset	Shraddha Harish Dalvi (itssbshinde@gmail.com)

**Parallel Session 3: Electronics and Allied-III**

<b>Date and Time</b>	<b>Track</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Presenting/Registered Authors (Presenters Email)</b>
<b>06<sup>th</sup> June 2025 09:00 AM to 11:00 AM</b>	<b>Session Chair:</b> Dr. Poonam Sonar, Rajiv Gandhi Institute of Technology, Mumbai. <b>Venue: B 107</b>			
	Energy	99	Design and Implementation of Smooth Transition Logic for Analog-Controlled BLDC Motor Systems in Agricultural Applications (Minor changes in title as suggested by reviewer)	Megha Sharma (meghasharma@somaiya.edu)
	Energy	183	Dynamic Water Management System for Multipurpose Usage	Swaraj Rajendra Patil (swaraj.patil0204@gmail.com)
	Energy	213	LiDAR-based Autonomous Mini-Vehicle with Obstacle Detection and Avoidance for Indian Road Conditions	Jasraj Anil Bherwani (jasraj.bherwani@somaiya.edu)
	Energy	218	Performance Evaluation of CSRR Structures for ISM Band Applications	Ameya Vaidya (ameya.vaidya@somaiya.edu)
	Energy	270	Design of IoT-Based Portable Vehicular Emission Detector with Location Tracker	Harsha Rane (harsha.rane@somaiya.edu)
	Energy	275	Trade-off Analysis of System Capacity and Energy Consumption through Spatial Multiplexing in Wireless Multiple Input Multiple Output System	Kartik Ramesh Patel (kartik@somaiya.edu)
	Energy	300	AUTOMATIC RECLOSER SYSTEM FOR TRANSFORMER USING PLC & SCADA	Ashutosh Vilas Tayade (shutoshtayade17@gmail.com)
	Energy	332	Integrated Speed Control and Condition Monitoring of BLDC Motors Using microcontroller and MATLAB	Yuvadhan Singh Rutia, Ishani Vajpai (yuvadhanrutia108@gmail.com)

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Time	Keynote Talk	Venue
<b>06<sup>th</sup> June 2025</b> <b>11:15 AM to 12:00 Noon</b>	<b>Title:</b> Regenerative Agriculture in India-A Silent Revolution, Spreading Roots <b>Speaker:</b> Dr. Nandkumar Kunchge Director, K. J. Somaiya, Institute of Applied Agricultural Research	Smt. Sakarben Karamshi Somaiya Sabhagruha
Time	Keynote Talk	Venue
<b>06<sup>th</sup> June 2025</b> <b>12:00 Noon to 12:45 PM</b>	<b>Title:</b> Univentricular Heart: A Complex CHD and its Solution <b>Speaker:</b> Dr. S. D. Sharma Founder Auflovs CardioTech Pvt. Ltd. Professor (R), Aerospace Engineering Department, Indian Institute of Technology (IIT Bombay), Mumbai	Smt. Sakarben Karamshi Somaiya Sabhagruha
Time	Keynote Talk	Venue
<b>06<sup>th</sup> June 2025</b> <b>12:45 PM to 01:10 PM</b>	<b>Title:</b> AI in Action: Transforming Energy, Agriculture, and Healthcare <b>Speaker:</b> Mr. Nikhil Sonavane, Senior Customer Success Engineer MathWorks, Pune	Smt. Sakarben Karamshi Somaiya Sabhagruha

### Contributed Poster

Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
Healthcare	285	Blockchain-Based Medical Information Systems: A Comprehensive Analysis	Adarsh Santosh Nair (adarsh.nair@somaiya.edu)
Energy	136	CFD Analysis of NACA 2412 Aerofoil as an Automotive Spoiler.	Yash Mhatre (mhatre.yr@somaiya.edu)
Healthcare	337	Myoelectric Prosthesis for Individual Finger Control Using Advanced Electromyographic Signal Processing	Abhishek Thakker Aishwarya Chavan, Sai Sandeep Pawaskar Rajshree Varma Nirav Shah (aishwarya.sc@somaiya.edu)
Agriculture	326	Emerging Trends in Agro-tourism: A Review of Data-driven Approaches, Sustainability, and Rural Development with State-of-Art Techniques	Alka Dattatray Gadakh (alkabkalhapure@gmail.com)
Healthcare	157	Review of IoT based smart patient healthcare system	Shruti Patkar (pshruti199201@gmail.com)
Healthcare	320	Rheological characterization of gelatin-hydroxyapatite bioinks for extrusion-based bioprinting applications	Virjaa Gada (virjaa.g@somaiya.edu)