



International Conference (Hybrid Mode)
on
“Synergetic Development through Smart Technologies &
Digital Transformation-2025 (SDSTD2025)”
25-26 June, 2025



Schedule for Paper Presentation

Track Name: Applied Science and Mathematics in Engineering (Mathematics)

Session No.: I

Date: 25/06/2025,

Time: 2.30 pm to 4.00 pm

Venue: ADIT College Room number 212

Sr. No	Manu script ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	94	Numerical Investigation of Rough Parallel Plate Slider Bearings Using Finite Difference Method	<u>Nitin M Patel,</u> Chetansinh R. Vaghela , Nitin Patel Jimit R Patel	Offline
2	139	A Finite Element Analysis of Counter-Current Imbibition in Heterogeneous Porous Media	<u>Tejaskumar Sharma,</u> Dr. Shreekant P. Pathak	Offline
3	161	Numerical Simulation of Phytoplankton Dynamics	<u>Dr. Darshana J. Prajapati,</u> Shivam Rawat	Offline
4	169	A Review of Root-Finding Methods for Nonlinear Equations	<u>Mukesh D. Patel,</u> Dr. Rajesh C Sanghvi	Offline
5	180	In-Depth Review of Multiple Fault Detection in Gearboxes Using Signal Processing Methods and Advanced Machine Learning Techniques.	<u>Bijal Khamar,</u> Dr. Vinod Patel, Dr. Krupal Parikh	Offline
6	211	Statistical methods and Machine learning algorithms for financial time series prediction: A review	<u>Mukeshkumar Joshi,</u> Dr.Vipul Shah, Dr. Krupal Parikh	Offline
7	138	Invariant Solution of a Time Fractional Ito System under the Lie Group Transformations	<u>Khusbu Patel,</u> Dr. Heenaben A Raj	Offline
8	246	Feed Forward Neural Network and Bayesian Regularization Algorithm for Solving Second-Order Stiff Ordinary Differential Equations	Rootvesh Mehta <u>Sandeep Malhotra</u>	Offline

Details of track coordinators	
Name	Mobile No.
Dr. Heenaben A Raj	9428437120



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Schedule for Paper Presentation

Track Name: Applied Science and Mathematics in Engineering (Mathematics)

Session No.: II

Date: 25/06/2025

Time: 2:30 pm to 4.00 pm

Venue: ADIT College Room number 213

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Offline/Online
1	216	A Hypergeometric Solution of Legendre's Differential Equation	<u>Harsh Thakkar,</u> Dr. Narendrasinh Desai	Offline
2	209	On the Generalized Tetranacci Like Polynomials	<u>KINNARI SUTARIA,</u> Dr. Narendrasinh Desai	Offline
3	201	Advanced Modelling of Blood Flow in Sickle Cell Anaemia: Analytical Extensions and Morphology	<u>Mitaliben Pitroda</u>	Offline
4	182	Uniform Approximation With Lupa's Operators Preserving Exponential Functions	<u>Harsh Kothari</u> Shruti S Kariya Prashant Patel	Offline
5	166	Ranking Methodologies in Fuzzy Linear Optimization: An Analytical Comparison	Dr. Narendrasinh Desai, <u>Sejal Patel</u>	Offline
6	133	A Novel Lie-Group Shooting Boundary Shape Function Method for Non-Newtonian MHD Flows	<u>Ravikumar Shah,</u> Dr. Heenaben A Raj Dr.Gargi J. Trivedi	Offline
7	117	Applications of fuzzy logic in Human-Centric Decision-Making Systems	Harsh Kadecha <u>Bhavya Diwan,</u> Dr. Heenaben A Raj	Offline
8	149	Phytochemical Evaluation of Protein Content in Medicinal Plants	<u>Dr. Richa Dodia,</u> Dr. Susmita Sahoo Dr. Heenaben A Raj	Online

Details of track coordinators	
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Dr. Shreekant Pathak	9510192944



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Schedule for Paper Presentation

Track Name: Applied Science and Mathematics in Engineering (physics)

Session No.: 1

Date: 25/06/2025

Time: 4.00 pm to 6.00 pm

Venue: ADIT College Room number 213

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	37	Substrate Temperature Modulated Electrical Transport Characterizations of PLD Grown α -CdIn ₂ Se ₄ Thin Films	<u>D.K. Dhruv</u> , Tanvi Dudharejiya, Sergei A. Sharko, Jagruti Jangale, Parth Rayani, J.H. Markna, Bharat Kataria, S.D. Dhruv	Offline
2	38	Synthesis of Thin Films on Diverse Substrates for Spintronic Applications: A Speculative Investigation	<u>Jagruti Jangale</u> , Parth Rayani, S.D. Dhruv, D.K. Dhruv	Offline
3	40	Thin Film Ferro-Electric Field Effect Transistor (Fe-FET) as a Memory Resistor: A Hypothetical Study	<u>Parth Rayani</u> , Jagruti Jangale, S.D. Dhruv, D.K. Dhruv	Offline
4	66	Study Of Blood Cancer with Special Reference to Germline Transcription Factors Mutations [Runx1, Gata2, Cebpa]	<u>Mishwa Badhiya</u> , AnjaliKulkarni	Online
5	91	Selection of Seed Substrates via Raman Spectroscopy for Enhanced Single-Crystalline Diamond Growth by the MPCVD Method	<u>Pulkesh Prajapati</u> , Abhay Dasadia, Khyati Upadhyay, Sandip V. Bhatt, Vanaraj Solanki	Offline
6	217	Electron Impact Ionization Cross-Sections Studies of VIB Elements: Cr, Mo	<u>Manauti Chaudhari</u> , Foram M. Joshi, Sanket S. Prajapati	Offline

Details of track coordinators	
Name	Mobile No.
Dr Abhay Dasadia	9426017285



International Conference (Hybrid Mode)
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Schedule for Paper Presentation

Track Name : Food Processing and Dairy Technology, Chemical and **Civil Engineering**

Session No. : 01

Date : 26/06/2025

Time : 11:30 am to 01:30 pm

Venue: ADIT College, Room no. 214

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	32	Experimental study on self-compacting concrete with plastic bottle waste as partial replacement of sand	<u>Dr. Jay Bhavsar</u> Parv Vaghela, Dr. V. R. Panchal	Online
2	71	Unveiling Hidden Dispute Triggers: Analyzing Arbitration-Inducing Clauses in NHAI EPC Contracts	<u>Dr. Dharmesh Oza</u> Dr. Rajiv Bhatt	Online
3	123	Strengthening Climate Predictions: A Critical Analysis of Estimation Models to Reduce Future Risks	<u>Jagruti Shah.</u> Dr. Rajiv Bhatt, Dr. Indrajit Patel	Offline
4	194	Characteristics of One Part Geopolymer as a Binder: A Review	<u>Poorav Shah.</u> Jalpa Patel, Krunali Patel, Riddhi Vashi	Offline
5	199	Review on Traffic Loading & its Impact on Pavement performance on various categories of Roads	<u>Axay Shah.</u> Dr. Rajiv Bhatt	Offline
6	56	Seismic Vibration Control of Secondary System Using Linear Viscous Dampers	<u>Darshan Yagnik.</u> Dr. Rajiv Bhatt, Dr. Snehal Mevada	Offline

Details of track coordinators	
Name	Mobile No.
Mr. Darshan Yagnik	9898415126



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Schedule for Paper Presentation



Track Name : Food Processing and Dairy Technology, **Chemical** and Civil Engineering

Session No. : 01

Date : 26/06/2025

Time : 11:30 am to 01:30 pm

Venue: ADIT College, Room no. 215

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	234	Plant Nutrient Drawn Forward Osmosis Using Potassium Humate as Draw Solute	Krupa Patel , Ajay Lohar, Pragnesh Dave, Haresh Dave, Kaushik Nath	Offline
2	253	HCl Regeneration and Recovery from Spent Pickling Liquor of the Steel Industry	Pathak Rahul Omprakash , Naina Tahilramani, Jayesh Yadav.	Offline
3	154	Study of Graphene material as adsorbent for Reactive Black 5 Removal.	Rocky Desai , Dr. Snehal Popli	offline
4	153	Fabrication of Eco-friendly Polymer Films using Modified Agricultural Starches as a Sustainable Alternative to Plastics.	Dr. Endrick D Contractor, Sagar B Gohil , Setu Visavadia	Offline
5	226	From Fouling to Functionality: Strategies for Sustainable Use of Polymeric Membranes	Heena Katariya , Dharmendra Mandaliya, Haresh Dave, Devarshi Tadvi	Offline
6	228	Removal of Cadmium from Aqueous Solution Using Emulsion Liquid Membranes: A Parametric Study	Akash R. Raval , Anand V. Metre, Mathurkumar S. Bhakhar, Dharmesh V Kapatel, Omprakash K Mahadwad.	Online

Details of track coordinators	
Name	Mobile No.
Dr. Dharmesh Kapatel	9824157874



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Schedule for Paper Presentation

Track Name : Electrical, Electronics and Communication Engineering

Session No. : 1

Date : 25-06-2025

Time : 4:15 pm onwards to 5:45 pm

Venue: D105 Lab, GCET

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Mode of Presentation
1	193	A Theoretical Survey and Comparative Analysis of Sustainable Energy Harvesting Techniques for Smart Infrastructure	<i>Anwwiit Barge,</i> <i>Khushali Shah</i>	Offline
2	198	Voltage Support and Fault Analysis in DSTATCOM-Compensated Multi-Machine Systems Using Wavelet-Based Probabilistic Neural Network Techniques	<u>Minesh K. Joshi,</u> R R Patel	Offline
3	207	Smart Spectacles for Blind Person using Internet of Things	<u>Nitya Chauhan</u> Nandan Patel, Bhaskar Thakker	Offline
4	239	Harmonic Elimination in Cascaded H-Bridge Inverter	<u>Surabhi Patil</u> Vishal Sheth <u>Paresh Modha</u>	Offline
5	173	Steady State Analysis of PV, Wind and Diesel Generator based microgrid	<u>Ravi C. Bhavsar</u> Rakeshkumar A. Patel	Virtual
6	175	Soft Computing for Fault Diagnosis in DC Microgrids: A Smart Technology Perspective	<u>Ashish Shah</u> <u>Kalpesh</u> <u>Chudasama</u>	Virtual

Details of track coordinators	
Name	Mobile No.
Prof. Paresh R. Modha	9998567827



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Schedule for Paper Presentation

Track Name : Electrical, Electronics and Communication Engineering

Session No. : 2

Date : 25/06/2025

Time : 4.15 to 6.00 pm

Venue: K S Patel Seminar Hall, GCET

Sr. No	Manuscript ID.	Title of the Manuscript	Name of Authors	Mode of Presentation
1	54	Urban Area Classification Using an Enhanced U-Net Architecture for High-Resolution Satellite Imagery up to Level-3	<u>Dr. Hetal N. Patel,</u> Vishal Ramanlal Nagar, Gaurav Jain, Shashikant Sharma	Offline
2	189	Graphene based Wideband Fractal Antenna for Wireless Applications	<u>Dr. Ronak Vashi,</u> Dr. Anish Vahora	Offline
3	213	Beam Steering Antenna Technologies: A Comprehensive Review of Techniques, Challenges, and Emerging Trends	<u>Vishalkumar J. Chauhan,</u> Pravin R. Prajapati	Offline
4	206	Design and Development of IoT Enabled Turbidity Monitoring System	Bhaskar Thakker, Ritesh Patel, <u>Krutik Patel, Prushti Lathiya</u>	Offline
5	179	AI-Based Companion Robot for Emotional Support and Independent Living	<u>Khushmeet Patil, Mehul Thakkar,</u> Keya Sheth, Nehal Fulbariya	Offline
6	204	GAN-RFDETR: A Dual-Challenged Face Detection Framework for low-light and occluded environments	<u>Sneha Sarvaiya,</u> Mansi Joshi and Hetal Patel	Offline
7	229	Enhanced Preprocessing Techniques for Raw EEG Signals: A Comparative Study on Bonn, CHB-MIT, and IIT Delhi Epilepsy Datasets	<u>Ghansyamkumar Rathod,</u> Dr. Hardik Modi	Offline
8	190	Semantic Segmentation of Urban Buildings Up to Level-3 Using YOLOv11 for Satellite Images	<u>Iigar A. Soni,</u> Hetal Patel	Offline

Details of track coordinators	
Name	Mobile No.
Dr. Bhaskar Thakkar	9574383265
Dr Mehul Thakkar	9033569124



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Schedule for Paper Presentation

Track Name : **Food Processing and Dairy Technology**, Chemical and Civil Engineering

Session No. : 1

Date : 26/06/2025

Time : 9.30 am to 11.00 am

Venue: Room No 141 ADIT

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	24	Characterization of Black Wheat Grain and It's Flour	Aishwarya Paranjape, <u>Anil Nandane</u> , Ajay Tapre	Offline
2	18	Computational Fluid Dynamics Simulation of Convective Airflow and Thermal Behavior in Vented Tomato Containers	<u>Arpit R. Badani</u> , Shivamurti Srivastava	Online
3	157	Advancing Sustainable Solutions: Use of Plant Based Waste for Eco-Friendly Container Development	<u>Foram D. Sirodariya</u> , Ajay R. Tapre and Anil Nandane	Online
4	221	Effect of Germinated, Fermented and Roasted Barnyard Millet on the Quality Attributes of Noodles	<u>Ritika B. Yadav</u> , Deeksha Bhukkal, Jyoti Narwal, Baljeet Singh Yadav	Online
5	231	Utilization of Black wheat flour, Ragi flour and Ashwagandha powder for the value addition of Traditional Recipe “Litti”	<u>Tripti Verma</u> , Alka Gupta, Shubhra Singh, Ragini Mishra, Shweta Sachan	Online
6	107	Comprehensive Evaluation of Electrohydrodynamic Drying on Turmeric Rhizomes: Structural, Physio-Chemical, and Kinetic Perspectives	<u>Monarch Shah</u> , Shivamurti Srivastava	Offline
7	42	Harnessing the Health Benefits of Fruits and Herbs: A Review of Natural Supplements	<u>Archa Shah</u> and Shivamurti Srivastava	Offline

Details of track coordinators	
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Schedule for Paper Presentation

Track Name : **Food Processing and Dairy Technology**, Chemical and Civil Engineering

Session No. : 2

Date : 26.06.2025

Time : 11.30 am to 1.30 pm

Venue: Room No 141 ADIT

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	39	Emerging Technologies in Smart Packaging System: Freshness Indicators of the Food for an Improved Food Safety Approach	<u>Mrudula Guggilla</u> , Vijay Kele, Aprna Sharma & Ashwini Mugale	Offline
2	96	Modelling and Validation of Heat Pump Assisted Drying Kinetics of Grapes Using Artificial Neural Networking (ANN)	<u>Misra S.K.</u> and Joshi D.C.	Offline
3	113	Development of carboxymethyl cellulose – nanoclay composite based mango peel incorporated biodegradable packaging film	<u>Pravin M. Ganorkar</u> , Disha Patel, Khushbu Kapatel, Neel Patel	Offline
4	79	Caffeine-Fortified Foods and Beverages for Attention-deficit/hyperactivity disorder Support: A Review of Innovations and Evidence	<u>Bhaswati Das</u>	Offline
5	83	Formulation and Sensory Evaluation of Onion and Moringa Paste Incorporated Papad	<u>Sakshi Mishra</u>	Offline
6	233	Forest Fruits in Focus: A Review of Bael (Aegle marmelos) and Ber (Ziziphus mauritiana) for Nutritional, Medicinal, and Post-Harvest Applications	<u>Deep P. Patel</u>	Offline
7	127	Effectiveness of Ultrasound Pretreatment on Convective Hot Air Drying of Food Products: A Short Review	Mayur Chaudhari, Mukesh <u>Rajeev Kumar</u> , <u>Kshitiz Kumar</u>	Offline
8	230	Unveiling nutritional potential, health benefits and value addition of proso millet: A review	<u>Mayank G. Soni</u> , Anant S. Kulkarni	Offline

Details of track coordinators	
Name	Mobile No.
Dr. Kshitiz Kumar	8222861889



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Track Name: Information Technology & Computer Engineering

Session No.: 1

Date: 25/06/2025

Time: 4.15 pm to 06.00 pm

Venue: MBIT College - B105

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	20	A Comprehensive Survey and Comparative Analysis of Deep Learning Approaches for Face Mask Detection	<u>Iiya Roy, Foram Tarsariya,</u> Dhaval J Thaker	Online
2	22	Sustainable Fashion Classification Using AI-Based Machine Learning Model	<u>Riya Singh,</u> Nensi Maniya, Dhaval J Thaker	Online
3	52	Psychological Impacts of Deepfakes Understanding the Effects on Human Perception, Cognition, and Behavior	<u>Tejas Patel,</u> Harsh Kantawala	Offline B105-MBIT
4	64	Sign Language Recognition by hand gestures, using AI and Deep Learning	<u>Prof. Rahul Patel,</u> Prof. Kush Patel, Prof. Komal Rohit	Offline B105-MBIT
5	73	Real-Time Anomaly Detection in Edge Computing: Challenges, Approaches, and Future Directions	<u>Sreeja P,</u> Ankita Chauhan, Dipti Mathpal.	Offline B105-MBIT
6	76	A Review on Traffic Surveillance System and Classification	<u>Mr. Atmiya Patel,</u> Dr. Jayna Donga, Dr. Vatsal Shah	Offline B105-MBIT
7	210	A Comprehensive Review on Sketch to Image Generation Task: Techniques, Datasets and Metrics	<u>Nrupesh Shah,</u> Dr. Sanjay Patel	Online
8	247	Crop And Weed Detection Semantic Segmentation	<u>VAIBHAV DHORE</u>	Online
9	99	Vehicle Detection, Classification and Counting	<u>SALONI UMESHKUMAR PATEL</u>	Offline B105-MBIT
10	101	A Comparative Study of YOLOv5 and YOLOv7 Algorithms for Object Detection: Focus on detection of Balls and Silos	<u>Dr. Jay Vala,</u> Harshal Kathiriya, Tapan Khanpara, Harshit Variya, Jeel Kukadiya	Offline B105-MBIT
Details of track coordinators				
Name			Mobile No.	
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Track Name: Information Technology & Computer Engineering

Session No.: 2

Date: 25/06/2025

Time: 4.15 pm to 06.00 pm

Venue: MBIT College - B113

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	137	YOLO based Lane and Object Detection for Intelligent Transportation System using Hybrid Approach.	<u>Prof. Mayurkumar B. Ajmeri</u> , Prof. Anjali J. Rajput, Prof. Himani K. Joshi, Dr. Krunalkumar N. Patel	Offline B113-MBIT
2	140	Deep Learning for Road Accident Severity Prediction: A Structured Review of Techniques and Taxonomies	<u>Mittal Darji</u> , Nikhil Gondaliya	Offline B113-MBIT
3	143	Estimating Pre-Diabetes Using Non-invasive Methods	Shrey Patel, <u>Dr. Maulika Patel</u>	Offline B113-MBIT
4	165	Early Diagnosis of Neurodevelopmental Disorder Autism Spectrum - A Review	<u>Prof. Riddhi Shukla</u> , Dr. Bhagirath Prajapati	Offline B113-MBIT
5	174	The Role of Artificial Intelligence and its Subdomains in Enhancing Decision Making for Business Operations: A Comprehensive Study.	<u>Shaan Thakkar, Miral Desai</u> , Khyati Mehta	Offline B113-MBIT
6	185	The Role of Machine Learning in the Modern Age: A Comprehensive Review of Current Application and Trend	<u>Mansi Sheth</u> , Pankaj Dixit	Offline B113-MBIT
7	191	Intelligent Fuzzy Control System for Autonomous Healthcare Assistive Robot Navigation	<u>DR. NARENDRASINH C CHAUHAN</u> , Dr. HARDIK SHAH	Offline B113-MBIT
8	197	OpFusionNet: A Deep Learning Framework for Malware Family Classification via Hybrid Opcode Feature Fusion	<u>Mali Nayankumar Mahendrakumar</u> , Dr. Narendrasinh C Chauhan	Offline B113-MBIT
9	84	Power of Artificial Intelligence on 6G Network: A Thorough view on History, Present and Future	<u>Keyur J Patel</u> , Jitiksha A Patel, Hemanshu A Patel	Offline B113-MBIT
10	92	A Survey on Energy-Efficient Resource Management in IoT Networks: Techniques, Trends, and Challenges	<u>Anandkumar Pandya</u> , Nirali Anand Pandya	Offline B113-MBIT

Details of track coordinators	
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Track Name: Information Technology & Computer Engineering

Session No.: 3

Date: 25/06/2025

Time: 4.15 pm to 06.00 pm

Venue: Room No B110, MBIT

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	028	Enhancing Blood Glucose Prediction with Deep Learning Models: A Focus on BiLSTM Model	<u>Jagruti Prajapati</u> , Keyur Brahmbhatt	Offline B110-MBIT
2	081	Deep Learning-Based Solanaceae Plant Disease Detection using Transfer Learning with ResNet-50	<u>Ishita Theba</u> , Sudhir Vegad	Offline B110-MBIT
3	78	CNN-LSTM Hybrid Models for Temporal Anomaly Detection in Surveillance Videos	Kinjal Joshi, Maulika Patel, <u>Garvil Shah</u> , <u>Henil Patel</u> , <u>Tirth Jasoliya</u>	Offline B110-MBIT
4	124	Automated Full-leg Landmarks Classification on CT-scans for Accurate Preoperative Sizing in Joint Replacement Surgery	<u>Rinal Patel</u> Sanjay Dabhi	Offline B110-MBIT
5	203	A Survey on Generalizable Deep Learning Models for Multi-Species Plant Disease Detection	<u>Komal Rohit</u> , Kush Patel, Miral Patel	Offline B110-MBIT
6	155	YOLO-Based Approaches for Vehicle Detection in Indian Driving Conditions: A Comparative Analysis	<u>Ankita Chauhan</u> Dipti Mathpal, Sreeja P Rohit Parmar Sudhir Vegad	Offline B110-MBIT
7	200	Efficient Classification of Skin Lesions using Transfer Learning Approaches	<u>Nandan Patel</u> Nirjari Bhatt Namrata Dave	Offline B110-MBIT
8	106	Credit Card Fraud Detection Using Artificial Intelligence – A Review	<u>Chandni Patel</u> Monika Patel	Online B110-MBIT
9	167	Emerging Trends and Advanced Techniques in Recommender Systems: A Comprehensive Review	<u>Nitinkumar</u> <u>Mukeshbhai</u> <u>Raval</u> Dhaval A Parikh	Online B110-MBIT
10	053	Optimized Vision-Language Large Models for Dermatological Diagnosis: A Comprehensive Review	<u>Shivangi</u> <u>Matieda</u> , Bhagirath Prajapati	Online B110-MBIT

Details of track coordinators

Name	Mobile No.
Dr Kinjal Joshi	9924692719



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Schedule for Paper Presentation

Track Name: Information Technology & Computer Engineering

Session No.: 1

Date: 26/06/2025

Time: 11:30 pm to 1.00 pm

Venue: Room No- D003, MBIT

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	214	Quantum-Resilient Game Theory: A Hybrid Consensus Framework for Mitigating Sybil Attacks in Post-Quantum Smart Contract Blockchains	<u>Anjali Rajput</u> Mayur Ajmeri <u>Himani Joshi</u> Nayan Mali	Offline D003-MBIT
2	232	IoT-Driven Deep Learning System for Real-Time Wildfire Detection	<u>Krish Ramoliya</u> Mehul Shah	Offline D003-MBIT
3	245	Reconstruct and Reflect: Self-Supervised Learning for Robust Image Denoising-Review	<u>Prof. Kush Patel</u> , Prof. Dhara Solanki , Prof. Vrutika Kachhiya	Offline D003-MBIT
4	244	Automated Periodontal Disease Diagnosis Using Deep Learning: Overcoming Class Imbalance with ResNet Architectures	<u>Rupali Shinde</u> , <u>Sheetal Shende</u>	Offline D003-MBIT
5	235	Advances in Privacy Preservation Techniques for Healthcare Data Mining: A Review of Challenges, Innovations, and Future Trends	<u>Tejas Patel</u> Krunalkumar Narendrabhai Patel	Offline D003-MBIT
6	248	Optimized Multi-UAVs Deployment in Virtual Environment using Game Theory	Gayathri R P Sri Varshitha Shiva Sai Krishna B P Nagasai	D003-MBIT
7	136	Navigating Blockchain's Role in Healthcare: Comprehensive Analysis of Application and Challenges in Electronic Medical Record	<u>jayshree Parmar</u> Anu Chauhan Jignasha Vishal Parmar	Online D003-MBIT
8	044	Blockchain for Ayurvedic Medicine Traceability	<u>Neeraj A K</u> , Sreeja P	Online D003-MBIT
9	021	Apache Iceberg: Revolutionizing Data Lake Management with Open Table Formats	<u>Tushar Gohil</u> , Ashish Kharvar	Online D003-MBIT

Details of track coordinators

Name	Mobile No.
Dr Kinjal Joshi	9924692719



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Track Name: Information Technology & Computer Engineering

Session No.: 2

Date: 26/06/2025

Time: 11:30 pm to 01.00 pm

Venue: D004, MBIT

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	16	Machine Learning in Knee Osteoarthritis Diagnosis: Current Techniques, Challenges, and Future Prospects	<u>Mohit Saini</u> , Trilok Chand	Online D004-MBIT
2	17	A Deep Dive into Machine Learning Models for Optimizing Wearable Stress Monitoring	<u>Ishaan Garg</u> , Amandeep Kaur, Manish Kumar	Online D004-MBIT
3	27 NR	Automated Helmet Detection for Two-wheelers to prevent Accidents	<u>Sneha Raval. Khushi Donda</u> , Shreya Tundiya, Shreyansh Donda, Dhaval J Thaker	Offline D004-MBIT
4	30	Enhanced Energy Consumption Forecasting Using Optimized LSTM Networks	<u>Iigna A. Patel</u>	Online D004-MBIT
5	43 NR	Integrating Deep Learning and Classical Machine Learning for Enhanced Automated Short Answer Grading – A Survey	<u>Harshad Chaudhary</u> , Dr. Manish Patel	Offline D004-MBIT
6	46	Automated Attendance System Using Facial Recognition Techniques: A Hybrid Deep Learning Approach	<u>Rishi H. Oza</u> , Mittal C. Darji	Online D004-MBIT
7	51	Enhancing Aerial Surveillance near Indian Borders Using Cascade R-CNN for the Identification of Unmanned Aerial Vehicles	<u>Dr. Jayandrath R. Mangrolia</u>	Offline D004-MBIT
8	58	Hybrid Privacy Techniques: T-Closeness and Paillier Encryption	<u>Iignasha Vishal Parmar</u> , jayshree Parmar, and Anu Chauhan	Online D004-MBIT
9	215	Automatic Image Captioning using Deep Learning : A Review	<u>Khushali Patel</u> Jinal Bhagat	Offline D004-MBIT
10	82	Deep Learning-Based Feature Extraction for Robust Multi-Model Remote Sensing Image Registration	<u>Kinjal Pamar</u> , Sudhir Vegad	Offline D004-MBIT

Details of track coordinators

Name	Mobile No.
Dr Pritesh Pandey	9426331176

**Schedule for Paper Presentation**

Track Name: Information Technology & Computer Engineering

Session No.: III

Date: 26/06/2025

Time: 11:30 pm to 01.00 pm

Venue: B003-3, MBIT

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	95	Natural Question Generation using Natural Language Processing – A Summary Paper	<u>Nidhi Parmar</u> , Prachiba Raol, Glace Babu, Awadh Kishor Singh	Online D003-3-MBIT
2	98	Combating Misinformation with AI: A Dual Approach Using NLP for Fake News and Computer Vision for Deepfake Detection	<u>Axit Jaykumar Kachhia</u> , Dr. Bhagirath Prajapati	Online D003-3-MBIT
3	104	YOLOSense: Real-Time Waste Sorting in Healthcare Environments Using Depth-Enhanced Object Detection	<u>Krishna Mangukiya, Dhruv Jani</u> , Vinita Shah	Offline D003-3-MBIT
4	108	AI-driven High-Resolution Image Classification for Land Use/Land Cover: techniques, challenges and trends	<u>Jayesh Dhanesha</u> , Sweta Panchal	Online D003-3-MBIT
5	128	Deep Learning in Histopathology: Advances in Breast Cancer Histological Subtype Classification	<u>Vinita Shah</u> , Miral Patel	Offline D003-3-MBIT
6	141	Development of an IoT Security Testbed with Integrated Attack Simulation and Explainable Threat Detection Framework	<u>Priyang Bhatt</u> , Falgun Thakkar	Offline D003-3-MBIT
7	150	A Study on AI-Driven Smart Farming: Integrating IoT and Deep Learning for Sustainable Agriculture	Awadh Singh, <u>Nitin Patel</u> , Hinaxi Patel, Prashant Arya	Offline D003-3-MBIT
8	163	A Review Paper on Integration of Machine Learning with Data Mining Techniques in Smart Manufacturing systems	<u>Ashvinkumar Rameshbhai Prajapati</u> , Dr. Dhaval A Parikh	Online D003-3-MBIT
9	184	Revolutionizing Supply Chain Management with AI and IoT: Enhancing Efficiency, Transparency and Customer Satisfaction	<u>Ami A Raj</u> , Alpesh Raj	Offline D003-3-MBIT
10	188	Smart Technology and Digital Transformation for Heart Disease Prediction	<u>Jay Hitesh Kumar Pandya</u> , Sanjay Patel, Mahek Gohil	Online D003-3-MBIT
11	212	A Comprehensive Review of Coral Bleaching Detection Techniques Using Image Processing	<u>Jinal Bhagat</u> , Khushali Patel	Offline D003-3-MBIT

Details of track coordinators

Name	Mobile No.
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International Conference (Hybrid Mode)
on
“Synergetic Development through Smart Technologies &
Digital Transformation-2025 (SDSTD2025)”
25-26 June, 2025



Schedule for Paper Presentation

Track Name : Mechanical, Mechatronics, Automobile, Automation & Robotics

Session No. : 01

Date : 25/06/2025

Time : 4.15 pm to 6.00 pm

Venue: Room No.: 314, ADIT College

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	151	Design and Development of a Mechatronics System for Autoloading of Heavy Workpieces for a Medium scale Gear Manufacturing Unit	<u>Ketan Tamboli</u> , Bhavesh Hindocha, Saurin Sheth, <u>Sanjiv Rajput</u>	Offline
2	156	Numerical Modeling of MWCNT-Reinforced Polymer Nanocomposites Using Material Designer in ANSYS Workbench	<u>Umang B. Jani</u> , Bhavik A. Ardeshana, Ajay M. Patel, Jalpa B. Ardeshana, Digant H. Raval	Offline
3	160	A Comprehensive Review on Electrical Discharge Machining and Geometric Dimensioning & Tolerancing of Ferrous Metal Matrix Composites	<u>Hemant Rathod</u> , <u>Saurin Sheth</u>	Offline
4	196	Artificial Intelligence for Industrial Management	<u>Dr. Vivek Deshpande</u> , Dr. Hemant Thakkar	Offline
5	220	Design and Validation of a Multi-Degree-of-Freedom Alignment Fixture for Hydrocarbon Piping Applications	<u>Vraj A. Hingu</u> , <u>Sachin R. Makwana</u>	Offline
6	205	Review and Exploration of Helical Torsion Spring Failure in Dual Plate Check Valve	<u>Jigisha Thakker</u> , Hemant Thakkar	Offline
7	249	Sorting of fruits using machine vision system	<u>Radhakanth Joshi</u> , Deivanathan R	Offline
8	72	Electric Vehicle Market Trends in India: A Comprehensive Review & 2025 Perspective	<u>Satyavrat P Patel</u> , Sanjay M. Patel, Samarth J Shelat	Offline

Details of track coordinators	
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Maharshi Thakkar	8511849931
Simit Prajapati	9898408940



International Conference (Hybrid Mode)
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25-26 June, 2025



Schedule for Paper Presentation

Track Name : Mechanical, Mechatronics, Automobile, Automation & Robotics

Session No. : 02

Date : 25/06/2025

Time : 4.15 pm to 6.00 pm

Venue: Room No.: 315, ADIT College

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	8	A Technical review of software analysis of welding process for composite material parts	<u>Dr. Pratik Kikani,</u> <u>Dr. Sagarkumar Shah</u>	Offline
2	25	Revolutionizing Gas Metal Arc Welding: A Comprehensive Review on the Transformative Potential of Activated Flux	<u>Dhruv Shailesh Gosani,</u> <u>Pratik T Kikani</u>	Offline
3	29	Expert System-Based Selection of Carbide Tools for CNC Turning	<u>Ruchir I. Desai,</u> Vaishal J. Banker, <u>Dr. Ronak R. Shah</u>	Offline
4	48	Design and Analysis of a Hydrostatic Bearing Using CAD and FEM Simulation	<u>Vaishal J. Banker,</u> Dr. Ayanesh Y. Joshi, <u>Sankalp B. Bhatiya,</u> <u>Harsh B. Joshi,</u> Krunal J. Shah	Offline
5	152	Shape-Shifting Manufacturing: The Rise of Smart Materials and 4D Printing	<u>Akhil H. Katakpara,</u> Tejas R Prajapati, <u>Krunal J. Shah</u> Dr. Yashavant D. Patel	Offline
6	68	Data to Smart Decisions: A Power-BI driven approach to unlock Actionable Insights from Excel files	<u>Dev Shelat</u>	Offline
7	168	Thin-layer Drying Kinetics of Jamun slices and Modelling	Simit Prajapati, Mitesh Shah and Shivamurti Srivastava	Offline
8	250	Comparative Study on Effects of Cutting Parameter Using CNMG Inserts from Different Manufacturers in Dry Turning of SS410	<u>Dr. Ayanesh Y Joshi,</u> <u>Panchal Bhavin Kumar</u>	Offline

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Schedule for Paper Presentation

Track Name : Mechanical, Mechatronics, Automobile, Automation & Robotics

Session No. : 03

Date : 26/06/2025

Time : 11.30 am to 01.30 pm

Venue: CAD Lab, ADIT

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	63	Effect of Biomass Supply Rate on Hydrogen Content of the Syngas and Performance of the Circulating Fluidized Bed Gasifier	<u>Maharshi Thakkar</u> , Dr. Vishal Singh, Bhaumik Sheth	Offline
2	69	A Comparative Study on Diesel Engine Performance and Emissions Using Co-Pyrolysis Derived Bio-Oil from Biomass and Plastic Waste	<u>Hitesh L. Jadav</u> , Dr. Nimit Patel	Offline
3	36	Tribological Effect of Surface Texturing on Piston - Piston Ring Assembly : A Review	<u>Sujalkumar Thakkar</u> , Nimit Patel	Offline
4	57	Driver Stress Detection in Automotive Systems: A Comparative Review of Technologies and Their Impact on Road Safety	<u>Yagnesh Gambhava</u> , Dr. Gajanan Patange	Offline
5	187	Emerging Trends in Predictive Maintenance for Electric Vehicle Batteries and Internal Combustion Engines A Review	<u>Digant Hemant Raval</u> , Dr. Ajay M Patel, Dr. Bhavik Ardesana, Umang Jani, Purnank Bhatt	Offline
6	50	To Evaluate the Enhancement in Thermophysical Properties of Nano-Enhanced Phase Change Material Using the T-History Method	<u>Ivalant Trivedi</u> , Aditya Bais, Dr. Mitesh shah	Offline

Details of track coordinators	
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International Conference (Hybrid Mode)
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“Synergetic Development through Smart Technologies &
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25-26 June, 2025



Schedule for Paper Presentation

Track Name : Mechanical, Mechatronics, Automobile, Automation & Robotics

Session No. : 04

Date : 26/06/2025 Time : 11.30 am to 01.30 pm

Venue: IDEA Lab, ADIT

Sr. No.	Manuscript ID.	Title of the Manuscript	Name of Authors	Online/Offline
1	34	Sustainable Fuel Development: Conversion and Characterization of Waste Plastics into Environmentally Friendly Alternative Fuel	<u>Samarth Jayeshbhai Shelat</u> , Sanjay Maganlal Patel, Paresh D. Patel, Nimit M. Patel	Offline
2	125	Advancements in vehicle aerodynamics: A comprehensive review of emerging technologies in Automotive Engineering	Sanjay Maganlal Patel, <u>Raaghav Patel</u> , Samarth Jayeshbhai Shelat	Offline
3	126	India's Electric Vehicle Journey: Key Trends and What Lies Ahead in 2025	<u>Satyavrat P Patel</u> , Dr. Sanjay M. Patel	Offline
4	93	A Combined Analytical and Numerical Approach to Pulse Tube Cryocooler Design	<u>Sanjiv Rajput</u> , Dr. Vishal N. Singh	Offline
5	59	A Pilot Investigation into the Impact of Algae-Derived Biodiesel on CI Engine Performance and Sustainability	<u>Kalpesh Vaghela</u> , Dr. Sanjay Patel	Offline
6	251	Enhancing Clean Cooking: Material-Based Performance Assessment of an Improved Biomass Stove	Kinnari Modi, Darshit S Upadhyay, Amita Chaudhary, <u>Niraj Shah</u>	Offline
7	252	Development of energy efficient sustainable bricks employing waste material and drying process	<u>Niraj Shah</u> , Sanjay Jain, Tejas Joshi, Heet Shah, Het Shah	Offline

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Name	Mobile No.
Dr. Ajay Patel	9427037011
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