

PROGRAM SCHEDULE OF RCAAI-2025

		DATE	TIME	VENUE	PAPER IDS
DAY 1	INAUGURAL CERMONY	29-Oct-25	9:30 am to 10 am	M. V. Seminar Hall, MIT Manipal	
	HIGH TEA	29-Oct-25	10 am to 10:30 am	M. V. Seminar Hall, MIT Manipal	
	ROBOTICS AND AUTOMATION- TRACK 1	29-Oct-25	10: 30 am to 11:30 am	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	22, 23, 30, 73, 78, 127
	ROBOTICS AND AUTOMATION- TRACK 2	29-Oct-25	10: 30 am to 11:30 am	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	82, 102, 120, 129, 154, 170
	KEYNOTE ADDRESS 1- Prof. S.P. Harsha, IIT Roorkee	29-Oct-25	11:00 am to 12:00 pm	M. V. Seminar Hall, MIT Manipal	
	KEYNOTE ADDRESS 2- Prof. Oulid Yahia, University of Stirling	29-Oct-25	12:00 pm to 1:00 pm	M. V. Seminar Hall, MIT Manipal	
	INDUSTRIAL AUTOMATION- TRACK 1	29-Oct-25	2:30 pm to 3:30 pm	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	3, 6, 11, 39, 58, 77, 86, 88
	INDUSTRIAL AUTOMATION- TRACK 2	29-Oct-25	2:30 pm to 3:30 pm	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	98, 101, 107, 111, 126, 131, 230
DAY 2	KEYNOTE ADDRESS 3- Prof. G. Mallikarjuna Rao, DRDO	30-Oct-25	9:30 am to 10:30 am	M. V. Seminar Hall, MIT Manipal	
	AI-ML- TRACK 1	30-Oct-25	11:00 am to 12:00 pm	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	29, 37, 55, 56, 70, 95
	AI-ML- TRACK 2	30-Oct-25	11:00 am to 12:00 pm	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	104, 122, 138, 140, 145, 146, 172
	KEYNOTE ADDRESS 4- Prof. Ts. Dr. Wan Zuha Wan Hasan, UPM Malaysia	30-Oct-25	2:00 pm to 3:00 pm	M. V. Seminar Hall, MIT Manipal	
	HEALTHCARE SYSTEMS -TRACK 1	30-Oct-25	3:30 pm to 4:30 pm	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	4, 19, 32, 35, 48, 72

	HEALTHCARE SYSTEMS -TRACK 2	30-Oct-25	3:30 pm to 4:30 pm	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	89, 103, 112, 165, 166, 190
DAY 3	KEYNOTE ADDRESS 5- Prof. Sivaprasad Nandyala, IHLAD, Abu Dhabi	31-Oct-25	9:30 am to 10:30 am	M. V. Seminar Hall, MIT Manipal	
	SUSTAINABLE SYSTEMS- TRACK 1	31-Oct-25	11:00 am to 12:00 pm	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	9, 67, 71, 93, 99, 116
	SUSTAINABLE SYSTEMS- TRACK 2	31-Oct-25	11:00 am to 12:00 pm	ONLINE/ OFFLINE (Dept. of Mechatronics MIT)	117, 130, 149, 153, 241, 245, 246
	VALEDICTORY FUNCTION	31-Oct-25	4:00 pm to 4:30 pm	M. V. Seminar Hall, MIT Manipal	
	HIGH TEA	31-Oct-25	4:30 pm to 5:00 pm	M. V. Seminar Hall, MIT Manipal	

COLOR CODE:DAY 1 – 29 OCT 2025 - **YELLOW**DAY 2 – 30 OCT 2025 - **BLUE**DAY 3 – 31 OCT 2025 - **GREEN**

TRACK-WISE SCHEDULE							
	TRACK	PAPER ID	PAPER TITLE	AUTHORS	INSTITUTE	ONLINE/OFFLINE	ONLINE LINK
DAY 1	ROBOTICS AND AUTOMATION-TRACK 1	22	Design and Development of a Brushless DC Motor Controlled Centrifugal Microfluidic Pump for Biomedical Applications	Jinka Ranganayakulu, Veeresh, Kiran Marab , Rahul, Chaithra J M, Neeraj Bagi	R V College of Engineering	ONLINE	https://tinyurl.com/4hdscr99
		23	Design And Development of a Syringe Pump Using Brushless Direct Current Motor Control	Jinka Ranganayakulu, Harshith Prasad M S, Ananda Prabhu Patter, Girish G S, Kishor N M, Neeraj Bagi	R V College of Engineering	ONLINE	https://tinyurl.com/4hdscr99
		30	Comparative Material and Ergonomic Evaluation of Standard 3D-Printed Hand Casts and Conventional Orthopedic Casts	Dr. MAHANTESH MATH, Sridhar R, Shanmukha Nagaraj, Subramanya K N, Pratham Y Sherigar, Gautam	R V College of Engineering	OFFLINE	https://tinyurl.com/4hdscr99

				Singh, Harsh Rai, Rajat Upadhyay			
		73	Development of IoT based electro pneumatic system	Sahil Sinha, R Sowmya, Srividya R	MIT, Manipal	OFFLINE	https://tinyurl.com/4hdscr99
		78	Triggers to the Diffusion of Robotics in MSMEs: A Technological Innovation Investigation	Pallawi Sangode, Ganesh Rede	N. L. Dalmia Institute of Management Studies and Research, Symbiosis Institute of Management, Pune	ONLINE	https://tinyurl.com/4hdscr99
		127	Comparative Study of Reinforcement Learning Algorithms for Vision-Based Autonomous Drone Landing Using ArUco Markers	Ujwal Amarnath, Jeanne Marina Dsouza	MIT, Manipal	OFFLINE	https://tinyurl.com/4hdscr99
	ROBOTICS AND AUTOMATION- TRACK 2	82	Autonomous Navigation Without Odometry: A ROS- Based Encoderless AGV Using Hector SLAM	Mandar More, Vishal Bhagwat, Atul More, Manisha Lande, Sachin Bhosle	Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Shivnagar Vidya Prasarak Mandal's Institute of	ONLINE	https://tinyurl.com/554nm8k9

					Technology and Engineering		
		102	3D Terrain Mapping and Autonomous Navigation for Planetary Rovers: an RGB-D Sensor-Based Framework	Akshat Agarwal, Vamsi Krishna, Pushkar Pallav, Pradeep Kumar	Dayananda Sagar University	ONLINE	https://tinyurl.com/554nm8k9
		120	Bike Swing Arm Topology Optimization for Reducing Weight of Electric Motorcycle	Jinka Ranganayakulu, Adi Vedanth D, Bhuvan V, Ganesh Rathod, Kushal M Argalmani	RV College of Engineering	ONLINE	https://tinyurl.com/554nm8k9
		129	Hardware Deployable Solution for Real-Time Condition Monitoring using TinyML on Embedded Edge AI Devices	Ayaan Shaikh, Mohammed Zubair Mohammed Shamim	MIT, Manipal, Forming Future	OFFLINE	https://tinyurl.com/554nm8k9
		154	VRISHABHA: EDGE-AI ENABLED REAL-TIME VISUAL PERCEPTION SYSTEM FOR EXTREME ROCKET FLIGHT ENVIRONMENTS	Tejas Patil, Aryan Gupta, Mohul Podder, Adi Narayan RS, Rudra Rajpurohit, Mutra Sai Tharun, Akash Siddarth, Gouranga Mandal	MIT, Manipal	OFFLINE	https://tinyurl.com/554nm8k9

		170	A Cost-Effective Autonomous Drone Delivery System with Ultrasonic-Based Real-Time Obstacle Avoidance	Yash Jagtap, Sachin Bhosle, Vishal Bhagwat	VPKBIET	ONLINE	https://tinyurl.com/554nm8k9
	INDUSTRIAL AUTOMATION-TRACK 1	3	Virtual reality-based Biofeedback system: A Scoping Review	C R SRINIVASAN, Srividya SRINIVASAN, Preethish K. R	MIT, Manipal	OFFLINE	https://tinyurl.com/zetuafv5
		6	SmartPlaylist: Leveraging Machine Learning for Intelligent Music Recommendations and Dynamic Playlist Curation	Rishabh R, A Hepzibah Christinal, Hephzibah R	Karunya Institute OF Technology and Sciences	ONLINE	https://tinyurl.com/zetuafv5
		11	Performance Evaluation of Inter-AS MPLS Layer 3 VPN System Using GNS3 Simulation	Bhagyashri Thorat	International Institute of information Technology	ONLINE	https://tinyurl.com/zetuafv5
		39	STARTUP ASSIST:- BRIDGING GAP BETWEEN CLIENTS AND EXPERTS	Kalpesh Joshi, Vinuthna Kollipara, Pranav Waghmare	Vishwakarma Institute of Technology, Pune	ONLINE	https://tinyurl.com/zetuafv5
		58	LLM-Powered Secure Retrieval and Encryption for Multimodal Medical Data	Tanishka Kshirsagar, Mayenk Joshi, Mdwaqass Khan, Kuber Kishore, Sonali Antad	Vishwakarma Institute of Technology, Pune	ONLINE	https://tinyurl.com/zetuafv5

		77	Automated Text Classification with relevance to Blooms's Taxonomy Levels: A Systematic Review	Harshitha G M, Vasudeva A	NMAMIT,NITTE	ONLINE	https://tinyurl.com/zetuafv5
		86	Power-Area exploration of Multiplier architectures for CNN MAC units on FPGA	Pavithra P, Rahul Ratnakumar	MIT, Manipal	ONLINE	https://tinyurl.com/zetuafv5
		88	SECURE MEDICAL RECORD STORAGE AND DISTRIBUTION USING BLOCKCHAIN	Deepika V	SJCIT	ONLINE	https://tinyurl.com/zetuafv5
	INDUSTRIAL AUTOMATION-TRACK 2	98	Evaluation of Analog-to-Digital Converters for Low Energy Application Using FinFet	Supreetha B S, Anirudh V	MIT, Manipal	ONLINE	https://tinyurl.com/mbrwc7p5
		101	Implementation And Comparative Analysis of 64bit Vedic And Booth Multipliers For a MAC Unit	Naga Sai Charan, Ramya S	MIT, Manipal	OFFLINE	https://tinyurl.com/mbrwc7p5
		107	Modular Design and Implementation of a Reconfigurable Higher Order FIR Filter	Supreetha B S, B. Meghana	MIT, Manipal	ONLINE	https://tinyurl.com/mbrwc7p5

		111	Design and Development of a System for Computed Axial Lithography Application	Jinka Ranganayakulu, Krishna M R, Roopa T S, Neeraj Bagi, Bharatish A	RV College of Engineering, Meukron Technologies	OFFLINE	https://tinyurl.com/mbrwc7p5
		126	Design of 8-bit ALU using Low Power Verilog Coding Techniques	Devika Sindhu, Shankaranarayana Bhat	MIT, Manipal	OFFLINE	https://tinyurl.com/mbrwc7p5
		131	E-Voting Reinvented: Ensuring Trust and Integrity with Blockchain	SUNANDA JANA, Mrinmoy Sen, Rajat Pal	HALDIA INSTITUTE OF TECHNOLOGY, University of Calcutta	ONLINE	https://tinyurl.com/mbrwc7p5
		230	Implementation and Simulation of MIT Manipal Campus Map in CARLA Autonomous Driving Simulator	Noorain Zehra H G, Ramya S Moorthy, Aravindhan D	MIT, Manipal, Aradha Tech Services	ONLINE	https://tinyurl.com/mbrwc7p5
DAY 2	AI-ML-TRACK 1	29	Synergistic Implementation of Metaheuristic Paradigms for Optimization in Intelligent Travel Planning	Nicole Saldanha, Aaradhya Deotale, Aditya Chauhan, Sana Shaikh	Don Bosco Institute of Technology	ONLINE	https://tinyurl.com/7az6md87
		37	AI-powered Interactive Lingobot for Self Learning and Interview Preparation	Shreeya Nair, Hema Gavali	SIES GRADUATE SCHOOL OF TECHNOLOGY	ONLINE	https://tinyurl.com/7az6md87

		55	Vehicle Speed Tracking System Using YOLOv8 with Deep Learning	BHARATHI P T	SIDDAGANGA INSTITUTE OF TECHNOLOGY	ONLINE	https://tinyurl.com/7az6md87
		56	ReSponD-ML : An Adaptive Machine Learning Framework for REconnaisance and SPOofiNg Attack Detection in IoT Networks	Anantha Narayanan V, Vigneswari Geethika Angi, Nakkeeran M	Amrita Vishwa Vidyapeetham, Coimbatore	ONLINE	https://tinyurl.com/7az6md87
		70	Beyond the Cloud: Impact of AI Driven Protocol for privacy rights using statistical legislative data analysis Framework	Apurva Mishra	Chandigarh University	ONLINE	https://tinyurl.com/7az6md87
		95	Ensuring privacy in a multi cloud environment using spectacle clustering algorithm	Anuradha J L	S J C Institute of technology, Chikkaballapura	ONLINE	https://tinyurl.com/7az6md87
	AI-ML-TRACK 2	104	A Rapidly Converging One-Step Iterative Scheme for Contraction Maps in Banach Spaces	Naveen Kumar, Ritu Saharan	Chandigarh University, Mohali	ONLINE	https://tinyurl.com/3vvjwcn
		122	Modeling and Optimization of Full-Vehicle Suspension Dynamics Using	Jinka Ranganayakulu, Dheemanth B A,	RV College of Engineering	ONLINE	https://tinyurl.com/3vvjwcn

			Hybrid Multibody-Lumped Systems and Machine Learning Models	Bhargava S, Balaji R			
		138	Image Colorization Using Generative Adversarial Networks with Feature-Aware Normalization	RAJESWARAO DUVVADA, JAHNAVI MUNNANGI, SRI SAI YATHEESH THOTTEMPUDI, GOWRI ASARI	VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE	ONLINE	https://tinyurl.com/3vvjwcn
		140	Quantitative Stress Detection via Facial Parameter Analysis and Emotion Recognition	Rohini Pawar	MAER'S MIT Arts,Commerce and Science College, Alandi (Devachi) Pune	ONLINE	https://tinyurl.com/3vvjwcn
		145	SafePost AI: A Privacy-Preserving Framework for On-Device PII Detection in Social Media Images	Aafreen Khan, Prachiti Parab, Nirali Arora, Shraddha Shinde	A.P Shah Institute of Technology	ONLINE	https://tinyurl.com/3vvjwcn
		146	YOLOv8-Based Road Damage Detection on the RDD2022 Dataset Using Hybrid Data Augmentation	S Aiswarya Lakshmi, Shilpa Suresh	MIT Manipal	ONLINE	https://tinyurl.com/3vvjwcn
		172	Hybrid CNN-SVM Framework for Robust Detection of Deepfake and Disguised Faces	Shanmukha Bhat, Padmashree G, Akshatha K R	MIT Manipal, A J Institute of Engineering and Technology	ONLINE	https://tinyurl.com/3vvjwcn

	HEALTHCARE SYSTEMS- TRACK 1	4	Image-Based Approaches to Lung Infection Classification: Current Trends and Future Perspectives	Kavitha Pandian	Kalasalingam Research Academy	ONLINE	https://tinyurl.com/2fyj4n9k
		19	Revolutionizing Blood Donation: A Smart System for Transparent, Efficient, and Secure Management	I Domilin Shyni, Sheeja Herobin Rani C, Chandu Yadavalli A, Rexiline Sheeba I, Jegan G	St. Joseph's College of Engineering ,Chennai, St.Xavier's Catholic College of Engineering, Chunkankadai, Nagercoil,India, athyabama Institute of Technology and Science, Chennai	ONLINE	https://tinyurl.com/2fyj4n9k
		32	Enhancing Explainable AI with Diverse Counterfactual Explanations (DiCE) for Transparent Stroke Risk Assessment	Alpa Patel, Aqib Hussain, Sindhu S, Ambanna Madabhavi	GTU , Dayananda Sagar University, Bengaluru	ONLINE	https://tinyurl.com/2fyj4n9k
		35	Polycystic Ovarian Disease (PCOD) Prediction Using Predictive Modeling	Supriya Telsang	VIT,Pune	ONLINE	https://tinyurl.com/2fyj4n9k
		48	Identification and Classification of	Kiran C, Kalaigar Abdul Muqeet,	NMIT	ONLINE	https://tinyurl.com/2fyj4n9k

			Pneumonia medical condition using U-Net algorithm	Vasanthakumar GU			
		72	An Enhanced Thyroid Prediction and Detection system using ensemble algorithms	Lavanya J	SJCIT	ONLINE	https://tinyurl.com/2fyj4n9k
	HEALTHCARE SYSTEMS-TRACK 2	89	Speedy Care: Live Video Assisted Ambulance with Emergency Medical Support	Ignisha Rajathi G, Mohanalin J, Johny Elton R, PRIYADHARSHINI V, RAJESWAR S, SUMITHA C, SUSMA N, Dhanush M	Manipal Institute of Technology Bengaluru, Manipal Academy of Higher Education, Manipal, India, College of Engineering Perumon, Sri Krishna College of Engineering and Technology, Coimbatore	ONLINE	https://tinyurl.com/y3z6amj8
		103	Enhancing Cervical Cancer Diagnosis with Multimodal Fusion and Uncertainty-Aware Deep Learning	Keerthishree B T, Bhoomika B R, Disha T V, Shreyanka A Y, Sneha D C, Bhavana D E	Adichunchanagiri Institute Of Technology	ONLINE	https://tinyurl.com/y3z6amj8

		112	CT-Based Lung Cancer Detection Using Hybrid Machine Learning and Deep Learning Approaches	Santhosh C S, Anup Jude A, Narendra Khatri, Hiba Iqbal Begum, Hiren K. Mewada , Praveen Kumar Shukla	JSS Science and Technology University Mysuru, MIT Manipal, Department of Computer Science New Jersey Institute of Technology 184-198 Central Ave, Newark NJ 07103, USA, Electrical Engineering Department Prince Mohammad Bin Fahd University, Al Khobar, Eastern Province, Saudi Arabia, Department of IoT and Intelligent Systems Manipal University Jaipur Jaipur, India	ONLINE	https://tinyurl.com/y3z6amj8
		165	“Lefties”- Identification through face morphology and morphometry	Praveen Shenoy	KMC Mangalore	OFFLINE	https://tinyurl.com/y3z6amj8

		166	Multi-Class Eye Disease Detection and Classification using VGG19	Surya Prakash Jella, Shahu Chatrapati K, Rakesh S	JNTUH University College of Engineering , Science and Technology Hyderabad	OFFLINE	https://tinyurl.com/y3z6amj8
		190	Retinal Disease Classification based on Optical Coherence Tomography images using InceptionV3Net Architecture	Shaivi Rutvij Panchal, Omkar Powar, Reva Sameer Laghate	MIT Manipal	OFFLINE	https://tinyurl.com/y3z6amj8
DAT 3	SUSTAINABLE SYSTEMS- TRACK 1	9	RIVER WATER QUALITY ANALYSIS AND OBJECT DETECTION	Leena L, Sandhiya M, Sushmitha S	Rajalakshmi Engineering College	ONLINE	https://tinyurl.com/4eemec22
		67	River Cleaning Robot Controlled by Android Application	Manisha Lande, Sudhir Lande	VPKBIET,Baramati	ONLINE	https://tinyurl.com/4eemec22
		71	Developing U-Net Segmentation Based Crop Detection and Leaf Disease Detection	Mallesh Sudhamalla, Mounika Raparathi, Bhargavi Komura, Akhil Polina, Nithish Reddy Pakanati, Sai Teja Esarapu	CMR Technical Campus	ONLINE	https://tinyurl.com/4eemec22
		93	A REVIEW ON WEARABLE ANTENNA DESIGN	Aadya Herle, Swetha Ravikanti, Lakshmi S K,	Dayananda Sagar College Of	OFFLINE	https://tinyurl.com/4eemec22

			FOR GPS TRACKING APPLICATIONS	Lakshita K, Leeshitha H, Preeti Khanwalkar	Engineering, PES University		
		99	Deep Learning-Driven Feature Extraction for Environmental Water Quality Assessment	Amrudha Saravanan, Annie Pushpa Mathew, Thamarai Natchiyar Saravanan, Rajeswari J	Velammal college of Engineering and Technology	ONLINE	https://tinyurl.com/4eemec22
		116	Decadal Transition of Arecanut Plantations in Belthangady Taluk: A Remote Sensing Approach with NDVI and Texture Features	JANARDHANA K, Om Prakash Kumar , Shweta Vincent, Basappa B Kodada, Babitha Ganesh	MIT Manipal, Canara Engineering College, Bantwal	ONLINE	https://tinyurl.com/4eemec22
	SUSTAINABLE SYSTEMS-TRACK 2	117	Disease classification in Bell Pepper Leaf Images using Deep Learning Methods	Giridhar Shakarad, Deepak D, Shweta Vincent, Anupkumar M Bongale, Jadesha Ganiga, S.B. Bore Gowda	MIT Manipal, Symbiosis International (Deemed University, University of Agricultural Sciences, Bangalore	OFFLINE	https://tinyurl.com/yh9k23md
		130	Coconut Classification using Acoustic Features	Dr. Ganesh V Bhat, Sreerama Samartha, Dayananda GK	Canara Engineering College	ONLINE	https://tinyurl.com/yh9k23md
		149	Satellite-Informed Prioritization of	Saurav Kumar	NRSC, ISRO	OFFLINE	https://tinyurl.com/yh9k23md

			Industrial Heat Hotspot Parcels				
		153	A Comprehensive Literature Review of Semantic Segmentation Models for Tree Species Mapping	Neetha Baliga	MIT Manipal	ONLINE	https://tinyurl.com/yh9k23md
		241	Generative Modeling of LISS-IV Satellite Imagery with Latent Diffusion	Avinash Chouhan, Biswarup Deb, Krish Kahnani, Dibyajyoti Chutia, Shiv Prasad Aggarwal	North Eastern Space Applications Centre, Indian Institute of Information Technology Guwahati	ONLINE	https://tinyurl.com/yh9k23md
		245	Ground water extraction in Mexico City: the mapping of anthropic created depressions via satellite imagery	Silvia García, Paulina Trejo	Engineering Institute, UNAM, Mexico	ONLINE	https://tinyurl.com/yh9k23md
		246	Effect of subsidence on a transport elevated line: anticipating critical conditions using satellite imagery	Silvia García, Saraid Santamaría, Paulina Trejo, Mónica Ramírez	Engineering Institute, UNAM, Mexico	ONLINE	https://tinyurl.com/yh9k23md