

Dr. Mahalingam College of Engineering and Technology, Pollachi-642003**Office of Dean Research and Innovation****RIG Sessions Details****(Period: June 2024 – May 2025)**

*as on 31.05.2025

S.No.	RIG Name	Total Events Conducted	Resource Person	Title	No of Faculty Participated	Date
1	Artificial intelligence and Machine Learning	11	Ms.S.C.Lavanya, AP(SS)/ CSE, Dr.MCET	Fake Opinion Identification	20	06.08.2024
			Ms.B.Suganya, AP(SS)/ CSE, Dr.MCET	Feature Selection of Reviews using Nature Inspired Optimization Techniques	22	08.08.2024
			K.S.Sudhisna, Assistant professor/IT	Textual feature extraction technique	20	16.08.2024
			Ms.A.G.Priya Varshini, Assistant Professor(SS)/IT	Predictive Analytics approaches for software effort estimation	20	18.10.2024
			Mr. K.Prabhu, AP(SS)/CSE, Dr.MCET Ms.G.Umamaheswari, AP/CSE, Dr.MCET	Software Security: 24 Deadly Sins of Software Programming	32	21.12.2024
			Dr.M.Venkatesan, Associate Professor, NIT, Puducherry	Research trends using Deep learning	35	14.03.2025
			Ms.B.Suganya, AP(SS)/ CSE, Dr.MCET	Feature Selection of Reviews using Nature Inspired Optimization Techniques	16	01.04.2025
			Ms.S.Devilavanya, AP/CSE, Dr.MCET	Machine Learning Based E-Commerce Product Recommendation System	23	23.04.2025
			Ms.M.Gomathi, AP/CSE, Dr.MCET	Incorporating Machine Learning Techniques in Blockchain to Increase the Security Features During Data Manipulation	34	29.04.2025
			Mr.V.Eswaramurthy, AP(SS)/AI&DS, Dr.MCET	Human Action Recognition Based on Principal Component Analysis with Hybrid Neural Networks	17	14.05.2025
			Mr.T.Vijayakumar, AP/AI ML, Dr.MCET	Data security using machine learning technique	25	16.05.2025

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2	Data Science	6	Ms.P.Kalaivani AP/IT, Dr.MCET	Recommendation system for Application Developers	10	16.07.2024
			Ms.S.Esther Nowroji AP / AI&DS, Dr.MCET	Mobile app development using Flutter	10	03.08.2024
			Dr.N.Suba Rani, Assoc. Prof/CSE, Dr.MCET Dr. S. Nithya, Assoc. Prof/AI&DS, Dr.MCET Mr. M. Vijayakumar, AP/AI&DS, Dr.MCET	Data Science and Advanced Machine Learning Exploration using Python"	15	18.12.2024
			Mr.R.Karthick, AP(SS)/CSE, Dr.MCET	AI Applications and Practical Insights	7	21.12.2024
			Ms.Saranya K, AP / Dr.MCET	Exploring connected papers: A Visual tool for Literature Review	11	28.03.2025
			ICT Trained Faculties	Power BI: Create Your Own Data Visualizations and Build Reports	160	01.07.2025 to 04.07.2025
3	Computer Network &IoT	12	Dr. A. Noble Mary Juliet, ASP/CSE , Dr.MCET	Issues and challenges in Vehicular Adhoc network	11	02.07.24
			Ms.R.Sherine Jenny, AP(SS)/ECE, Dr.MCET	Threats and Challenges of Side Channel Attack in IoT	12	02.08.24
			Ms. M. Rajalakshmi, AP / AI&DS, Dr.MCET	Hands On session on “Microsoft Power BI Data Analyst Associate	13	10.08.24
			Ms.R.Sherine Jenny, AP(SS)/ECE, Dr.MCET	Certain Investigation on Side Channel attack resistant secure implementation of block ciphers	21	19.08.24
			Mr.G.Karthikeyan, AP(SS)/EIE, Dr.MCET	Certain Investigation on denial of service and distributed denial of service attacks in Wireless Networks via mitigation	17	18.09.24
			Mr.M.Arun, AP(SS)/AI&DS, Dr.MCET	Research tools for modern scholars (A guide to leveraging AI powered tools for efficient research)	10	19.10.24
			Ms.J.Rini Angeline Vinshia/AP(CYS),Dr.MCET	Accurate brain tumor detection using optimized feature selection based hybrid algorithm	12	25.10.24

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			Mr.K.Prabhu, AP(SS)/CSE, Dr.MCET	Effective Cardio Vascular Diseases prediction using Machine Learning Techniques	15	3.12.25
			Dr.N.Senthil Madasamy, Ass Prof/CSE, Dr.MCET	Hands on:Ethical hacking-capturing passwords and visited websites using ARP spoofing attack with Bettercap tool	8	22.02.25
			Mr.Ramakrishnan Nataraj Cyber Security Analyst and Trainer ERP Next	Research aspects in Networking and Cyber Security	10	27.03.25
			Mr.M.Sivakumar, AP/IT, Dr.MCET	An Autonomous irrigation system for smart agriculture management using AI and 6G IoT	13	27.03.25
			Ms.J.Rini Angeline Vinshia/AP(CYS), Dr.MCET	AI based digital image processing techniques and applications	35	19.5.25
4	Signal &Image Processing	10	Mr.S.Mahalingam, AP/MECH, Dr.MCET	Research seminar on “Battery Management System in Electric Vehicles”	18	17.08.2024
			Mr.V.Gurunathan, AP(SS)/ECE, Dr.MCET	Research seminar on, “Multimodel Vein Biometric System using Deep learning Algorithms”	15	23.09.2024
			Dr.Malaya Kumar Nath, Head of ECE, National Institute of Technology, Puducherry	KSS on “xAI for ECG Signal Analysis in Heart Disease Identification”.	36	25.10.2024
			Dr.C.Moorthy, AP(SS)/ECE, Dr.MCET	Dissemination of High end workshop on “Deep learning for Biomedical Signal Processing” conducted by NIT, Puducherry (Part I)	8	12.12.2024
			Mr.A.Shafeek, AP(SS)/ECE, Dr.MCET	Research seminar on “Design of Emotion Recognition System using EEG signals”	10	15.02.2025
			Mr.N.Praveen Kumar AP(SS)/IT, Dr.MCET	Hands on session on “Static Malware Analysis using	12	19.3.2025

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				open source tools”		
			Mr.V.Gurunathan, AP(SS)/ECE, Dr.MCET	Dissemination of High end workshop on “Deep learning for Biomedical Signal Processing” conducted by NIT, Puducherry (Part II)	10	28.03.2025
			Mr.A.Shafeek, AP(SS)/ECE, Dr.MCET	Dissemination of High end workshop on “Deep learning for Biomedical Signal Processing” conducted by NIT, Puducherry (Part III)	10	28.03.2025
			Dr.C.Moorthy, AP(SS)/ECE, Dr.MCET	Research seminar on, “ REcent trends and innovations in Medical Image Analysis”	5	30.04.2025
			Dr.J.Thimmiaraja, AP(SS)/IT, Dr.MCET	Research seminar on “Histogram Equalization for Image Enhancement using Medical Images”	8	29.05.2025
5	Cryptography and Network Security	6	Ms.G.Saranya, AP/IT, Dr.MCET	Privacy-Preserving Encryption using Federated learning	9	
			Dr.M.Sakthivadivel, AP(SS)/Cyber, Dr.MCET	Roadmap to CEH	12	17.10.2024
			Ms.P.Rajeswari, AP/IT, Dr.MCET & Mr.R.Prabhu, AP(SS)/IT, Dr.MCET	Unleashing AI: Practical Applications and industry Insights	10	20.03.2025
			Ms.N.Sugirtham, AP(SS)/IT, Dr.MCET	Explainable AI for Cybersecurity and Resilience	11	17.04.2025
			Ms.G.Keerthika, AP/IT, Dr.MCET	Searchable Encryption of Data in the Cloud	10	12.05.2025
			Ms.P.Rajeswari, AP/IT, Dr.MCET	Secure Cloud Data storage and its Access	10	15.05.2025
			Dr. K. Vijayakumar, Professor and Head / EEE, Dr.MCET	Adaptive Controller Design For Nonlinear Process Control Systems	14	10.08.2024
			Ms. K. Durgalakshmi, AP(SS) / EEE, Dr.MCET	Artificial Neural Network Based Svpwm Techniques For Renewable Energy Applications	12	24.08.2024

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6	Power Electronics and Systems & Control and Automation	15	Mr. J. Nagarajan, AP/EEE, Dr.MCET	Hyperparameter Tuning For Direct Data Driven Control	15	14.09.2024
			Dr Anbalagan Thangavel, Senior Technical Project Manager, Robert Bosch Engineering and Business Solutions Ltd, Coimbatore	Controls In Electric Vehicles	30	28.09.2024
			Dr.K.Ragavan, Associate Professor, Department of Electrical Engg, IIT, Gandhinagar	Research Proposal Writing – Guidelines And Implementation	33	09.10.2024
			Mr. T. Sathesh Kumar, AP(SS)/EEE, Dr.MCET	Assessment Of Hybrid Microgrid Using Optimization Techniques	9	26.10.2024
			Mr. L. Hubert Tony Raj, AP/EEE, Dr.MCET	Optimizing Power Converter Topology Through Graph Modeling	12	09.11.2024
			Dr.K.Ragavan, Professor, Department of Electrical Engg, IIT, Gandhinagar	Research Proposal Writing	76	08.02.2024
			Mr. M. Saravanakumar, AP(SS) / EEE, Dr.MCET	Dc To Dc Converter For Renewable Energy Applications	15	22.02.2025
			Mr. A Venkatesh, AP(SS)/EEE, Dr.MCET	Simulation Of Single Phase Inverter Using PLECS Software	10	15.03.2025
			Mrs. A. Suganya, AP/EEE, Dr.MCET	Flexible Ac Transmission Systems	10	27.03.2025
			Ms. N. Aarthi, AP/EEE, Dr.MCET	Analysis Of A Non-Isolated Bidirectional Dc – Dc Converter	11	12.04.2025
			Mr. A Venkatesh,	Control Strategies For Battery Management System In	14	24.04.2025

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			AP(SS)/EEE, Dr.MCET	Ev Application		
			Mr. R.B. Rajeshkumar, AP/Auto, Dr.MCET	Solar Photovoltaic Fed Electric Vehicle Charging Station With Enhanced Power Quality Using Shunt Active Power Filter	13	24.04.2025
			Mrs. A. Selvanayakam, AP/EEE, Dr.MCET	Implementation Of Yolo Algorithm In Object Recognition	11	17.05.2025
7	RF & VLSI	12	Ms.P.Vanjipriya AP/VLSI, Dr.MCET	Enhancing Semiconductor Device Models through Machine Learning	10	09.08.2024
			Ms.K.C.Rajarajeswari AP/ECE, Dr.MCET	Certain Investigations on Design and Performance Analysis of Various Wear able Antennas for ISM and MICS applications	10	19.08.2024
			Dr.Swetha Amit Senior Application Engineer Entuple Technologies Pvt Ltd	Anslys - Solution for Electronics - HFSS”	10	10.08.2024
			Ms.S.Thilagavathi AP(SS)/ECE, Dr.MCET	Wireless Communication Technologies for beyond 5G Systems	10	09.07.2024
			Mr.M.Nithyakumar AP/ECE , Dr.MCET	Design and Performance Analysis of MIMO Antennas for Millimeter wave Communication	10	13.09.2024
			Mr.M.Vignesh, AP/ECE, Dr.MCET	Recent Trends and Applications in Analog VLSI	10	23.08.2024
			Ms.Abirmasundari AP/ECE, Dr.MCET	A Review on Algorithms used in Antenna design for wireless system	09	14.02.2025
			Ms.K.C.Rajarajeswari AP/ECE, Dr.MCET	Challenges in Designing Antenna for Real time and Human Applications	07	15.02.2025
			Ms.Abirmasundari AP/ECE, Dr.MCET	Role of Substrates and Materials in Antenna Performance	12	26.05.2025
			Ms.S.Dharani AP/ECE, Dr.MCET	ASIC Design and Optimization of Arithmetic Units for Cryptography	13	23.04.2025
			Ms.Abirmasundari AP/ECE, Dr.MCET	RIS in Next Generation wireless Communication - A Review	10	07.07.2025
			Dr.G.Soundarya AP(SG)/ECE, Dr.MCET	Free space optics and its challenges	10	07.07.2025

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8	Materials, Design and Manufacturing	12	Mr. R. Vishnuramesh kumar, AP(SS)/ AUTO, Dr.MCET	Experimental Investigation on Mechanical Properties of Titanium alloy by Laser cladding Process	10	19.08.2024
			Mr. K.N.Balaji, Sr. Advisor (Rtd.), Automotive, Farm & off Highway Equipment, Brakes India Pvt. Ltd, Chennai	Innovations in Automotives	9	24.09.2024
			Mr. M.Mahendran, AP(SS)/ AUTO, Dr.MCET	Hands on session on Ansys	10	30.09.2024
			Mr. M.Manivannan, Co-founder and Technical director of COMPESS, Chennai	Automotive Product Detailing	13	26.10.2024
			Mr. M.Padmanabn, AP(SS)/ MECH, Dr.MCET	Research Seminar on “ Investigation of Mechanical, Tribological, Behaviors of AL-Ni-Co- MWCNT Composites through Powder Metallurgy Technique”	14	23.11.2024
			Mr.S.Mahalinga AP / AUTO, Dr.MCET	Electric Vehicle Technology	9	08.0.-2025
			Mr. N.Dhamodharan – AP / AUTO, Dr.MCET	Research Seminar on “Investigation of polymer composite in Additive Manufacturing”	9	15.02.2025
			Mr. R.Vishnurameshkumar AP(SS) / AUTO, Dr.MCET	Knowledge Sharing Session on “Interpretation of Material Characterization Instruments”	9	17.02.2025
			Dr. K.SAkthivadivel – AP(SG) / AUTO, Dr.MCET Mr. N.Dhamodharan – AP / AUTO, Dr.MCET Dr. M.Jayaraj – AP(SG) / MECH, Dr.MCET Dr. N.Balamurali – AP / MECH, Dr.MCET	Knowledge Sharing Session on “Design for Manufacturing using Creo”	12	27.02.2025
			Dr. Vimal Jayaseelan Founder & CEO Hygge Mobility Pvt. Ltd.,	“Electric Vehicles – Challenges and Opportunities”	7	28.02.2025

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			Bengaluru			
			K.Sasikumar, AP/ MECH, Dr.MCET	Development of Scaffolds using Andvanced 3D bio-printing Technology	10	13.03.2025
			Mr. M.Mahendran – AP(SS) / AUTO, Dr.MCET	Hands-on session on ImageJ	9	02.04.2025
9	Energy Engineering & Alternative Fuels	8	Dr.V.Umadevi, AP(SG)/Physics, S&H, Dr.MCET	Surface Coatings and Tribological Applications	11	21.08.2024
			Mr.M.Prabu Raj, AP(SS)/EEE, Dr.MCET	Demonstration of Electrical Energy Audit Instruments	9	31.08.2024
			Mr.V.D.Tamilaraan, AP/Automobile, Dr.MCET	Influences of combustion chamber geometry on the performance of Bioethanol fuelled CRDI engine	9	19.10.2024
			Mr.J.Venkatesh, AP/Mechanical, Dr.MCET	Enhancing solar thermal efficiency: The role of nano-fluids in concentrating collectors	9	26.10.2024
			Ms.V.Regina Delcy, AP/Physics, Dr.MCET	PVD Methods for Thin film Deposition and its Applications	9	21.02.2025
			Mr.J.Venkatesh, AP/Mechanical, Dr.MCET	Advances in Solar Collector Technologies-I	12	15.03.2025
			Mr.J.Venkatesh, AP/Mechanical, Dr.MCET	Advances in Solar Collector Technologies-II	7	24.04.2025
			Dr.Narayanan Ramanujam, Senior Technical Manager, Hexagon, Bangalore	Research Ideas in Alternative Enregy Technologies	13	26.04.2025
10	Sustainability and Green Technologies	7	Mr. A. Praveen Kumar, AP(SS), Dr.MCET	Concrete Filled Steel Tubular Columns	9	28.09.2024
			Mr. S. Syed Masoodhu, AP (SS), Dr.MCET	Hydraulic Performance of Polymer Modified Geosynthetic Clay Liner (GCL) with Black Cotton Soil Permeated with Salt Solutions	12	15.11.2024

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			Mr. S. Dineshkumar, AP , Dr.MCET	Phytoremediation	10	21.02.2025
			Mrs. S. Suthaviji, Assistant Professor, Dr.MCET	Sustainable Materials in Construction	14	05.03.2025
			Mr. M. Sudharsanan, AP, Dr.MCET	Sustainable Construction Practices	21	15.03.2025
			Ms. S. Sharmila, AP , Dr.MCET	Sustainable concrete with physical, chemical and bio admixtures	19	15.04.2025
			Ms. R. Anuja, AP, Dr.MCET	Sustainable Materials in Construction Industry	8	16.04.2025
11	Energy materials & Bio inspired materials	8	Dr. A. Shanmugapriya AP, Dr.MCET	Microwave Integration of Carbon Nanofiber into Vertically Grown Nanoarray-stacked 3D Flowers- and Urchin-like Manganese Cobalt Oxide Nanohybrids for High Capacity Supercapacitors	7	10.08.2024
			Dr. J. Johnson William AP, Dr.MCET	Empowering the Negative Electrode of Asymmetric Supercapacitors with the Multi-Walled Carbon Nanotube Supported Iron Tin Oxide Nanoclusters	6	31.08.2024
			Mr. N. Karthikeyan, AP(SS) / Physics, Dr.MCET	Skill Development Course on Batteries & Energy Storage Technologies	8	28.09.2024
			Dr. S. Parveen Women Scientist - DST - WOS(A)	Discussion on Sodium ion Batteries	7	08.10.2024
			Dr. P. A. Periasamy ASP / Chemistry, Dr.MCET	Nanomaterials for Photocatalytic Applications	7	19.10.2024
			Dr. Allen J Britten Professor Department of Chemistry Cape Breton University Sydney, Nova Scotia Canada	Do's and Don'ts When Using Analytical Instruments	11	18.11.2024

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			Mr. N. Karthikeyan, AP(SS) / Physics, Dr.MCET	Impact of Cobalt Hydroxide on Bismuth Oxide Nanostructures on Supercapacitor Applications	9	28.03.2025
			Ms. N. Chithra AP / Chemistry, Dr.MCET	Applications of Metal Complexes in Supercapacitors	9	28.03.2025
12	Fuzzy Mathematics-Applications	6	Dr.K.Kalaiselvi Dr.MCET	Fuzzy Graph Theory	10	10.08.2024
			Dr.S.Saranya Dr.MCET	Data Mining with Fuzzy Computing	11	10.08.2024
			Dr.M.Shanthi AP/Mathematics, Karpagam College of Engineering	Research Challenges and Possibilities	12	07.12.2024
			Dr.R.Ramesh Dr.MCET	Mathematics in Machine Learning	11	08.01.2025
			Dr.T.Muthukumar Dr.MCET	Mathematics in Machine Learning	11	08.01.2025
			Dr.R.Nishanthi Dr.MCET	Generalization of crisp,fuzzy, Intuitionistic Fuzzy Neutrosophic Sets	11	30.01.2025