

Fifth International Conference on
Recent Advances in Materials and Manufacturing
(ICRAMM 2023)

29 - 30, December 2023 | Erode, India | <http://www.icramm.com>

Program Schedule

Date	Time	Event
29.12.2023	09.45 am to 10.10 am	Inaugural Function (ONLINE) Google meet link: https://meet.google.com/cie-xgzo-irv
29.12.2023	10.10 am	Keynote Address (ONLINE): Dr.R.Singaravel Professor & Registrar, Annamalai Univeristy, India Google meet link: https://meet.google.com/cie-xgzo-irv
29.12.2023	10.45 am to 04.30 pm	Session: CHE01(online)
		Session: CE01(online)
		Session: CE02(online)
		Session: ME01(Online)
		Session: ME02(Online)
		Session: ME03(Online)
		Session: ME04(Online)
		Session: ME05(Online)
		Session: PH01(online)
		Session: AMC01(online)
		Session: EE01(online)

PH - Applied Physics
CE - Civil Engineering
ME- Mechanical Engineering
AMC - Applied Mathematics & Chemistry
CHE- Chemical Engineering
EE - Electronics Engineering

Note:

1. Start time given above indicates Indian Standard Time (IST).
2. Presentation will be conducted using Google Meet.
3. Participants can join their respective sessions by clicking the meet link given
4. Mode of presentation should be powerpoint presentation(ppt or pptx)
5. Duration of presentation: 10 minutes (presentation) + 5 minutes(Queries)
6. Participant using Google Meet will be admitted at any time prior to their scheduled time.
7. Participants are requested to follow the scheduled time; especially regarding the time for your talk.
8. Participants are requested to contact the respective session In-Charges for presentation related queries.
9. If any problem connecting to session, please text to the respective session In-Charges (Or) ICRAMM Whatsapp group during presentation date(s).

Session: CHE01 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair:

Dr. R. PRAKASH, AP / Mech, VCET

Google meet link: <https://meet.google.com/itu-cppm-otd>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 1034	Co-pyrolysis of waste plastics from polystyrene (PS) and polypropylene (PP) with biomass from pine cones, rose stems, and avocado leaves	Darwin S. Proaño, Francisco A. Chuqui, and Oscar B. Arteaga
11.05 am	RAMM 1035	Nanoparticles and hybrid systems based on proteins and polysaccharides: a literature review on synthesis methods and their characterization	Francisco A. Chuqui, Darwin S. Proaño, and Oscar B. Arteaga
11.25 am	RAMM 1091	Green synthesis and characterization of titanium dioxide nanoparticles utilizing Punica granatum extract	K. Shree Meenakshi
11.45 am	RAMM 2038	Efficient Third-generation Solar Cells: Scopes, Limitations and Materials Calculations	Mehtab Ur Rehman, Wang Qun, Li Yongqing and Yunfei Yu
12.05 pm	RAMM 2074	Green synthesis of nickel-rich $\text{Ni}_{0.89}\text{Co}_{0.08}\text{Al}_{0.03}\text{O}_2$ for cathode material by Electrochemical Method	Adrian Nur, Endah Retno Dyartanti, Muthi'ah Syafa Gustian and Novita
12.25 pm	RAMM 2089	Recovery & Reuse of Industrial sewage using Dispersive Liquid-Liquid Micro Extraction (DLLME) Technique	Dhanalakshmi Mariappan, Boligarla Vinay, Aruna Janani V
02.00 pm	RAMM 2090	Effectiveness of multiple pentagonal plate assembly as a promoter adjudged by its agmentative capacity	L. Neelima Chandralekha, M. Tukarambai, N. Chitti Babu, V. Nageswara Rao
02.20 pm	RAMM 3002	Electrochemical regeneration of NaBH_4 as a part of the hydrogen release cycle	Adrian Nur, Endah Retno Dyartanti, Arif Jumari, Muhammad Dani Supardan, Nazriati Nazriati, Zidan Insa Fauzi, Reza Pratama Aditia, Setiana Handayani, Arvian Raditya Airlangga

02.40 pm	RAMM 3070	Improvements in Protecting Metal from Corrosion: Investigating the Efficiency of Organic Inhibitors Containing Heterogeneous Atoms	A. Y. I. Rubaye, K.Z. Abdulsada, Abdulrazzaq S. Abdullah, A. A.Alamiery, W. K. Al-Azzawi, A. A. H. Kadhum
03.00 pm	RAMM 4028	Characterization and Process Optimization of Bromelain Enzyme extracted from Unripe Papaya peel waste (Carica Papaya) and Banana peel waste (Musa Acuminata)	Mallika Rani Parimi, B. Sarada Sri Yagna, Reddy Johny Mohan Krishna, G. Divya Deepika, D. Naga Akhila, Meena Vangalapati
03.20 pm	RAMM 4029	Degradation of Malathion- Characterization, Enumeration, DNA Isolation	Sumanjali Avanigadda, D. Naga Akhila, G. Divya Deepika Aanathi. Yarlagadda, Reddy Johny Mohan Krishna, B. Sarada Sri Yagna, Meena Vangalapati
03.40 pm	RAMM 4030	Green Synthesis of Iron Nanoparticles for the Removal of Phosphates from Aqueous Solution by Azadirachta Indica (Neem) Leaf Extracts	Rajana Sai kiran, Vundavalli Venkata Srvanth, A Ajay Raj, Avapati SuryaLokesh, Pulipati King, Meena Vangalapati
04.00 pm	RAMM 4031	Green Synthesis of Silver Nanoparticles for the Removal of Sodium Lauryl Sulfate by Brassica Oleracea (Broccoli) Extract	Pichika Satya Kedarnath, B ali Chandra Sekhar, D V Surya Prakash, D Leela Prasanna, Rajana Sai Kiran, Meena Vangalapati

Session: CE01 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair:

Dr. C. KARTHIK, AP / Civil, VCET

Google meet link: <https://meet.google.com/hdy-jcpw-ufc>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 1074	Review on Utilization of Agriculture Waste For Waste Water Treatment	Sanjay P Raut, Sanket G Kalamkar, Prashant G Matte, Pradnyesh S Gaikwad, Sakshi G Walke
11.05 am	RAMM 1089	Structural Behavior of RC Flat Slabs with Various Structural Systems under Seismic Loading	Vinod Kumar M, K Rajesh Kumar, Taha Abou Hamza and Gurumoorthy
11.25 am	RAMM 1090	Micro and Mechanical Characteristics of Concrete Incorporating with Calcined Kaolin and Used Foundry Sand	N. Gurumoorthy, K. Rajesh Kumar, M. Vinod Kumar
11.45 am	RAMM 2007	Application Of M-Sand Waste as a Substitute to Granular Soil for Embankment Fillsa and Backfills in Earth Walls	S. Muthu Lakshmi, Vidhya Lakshmi Sivakumar
12.05 pm	RAMM 2025	Design of steel silo for cement storage	Annie Sweetlin Jebarani J P, Ramesh K, Venkada Priya S Mafaz Ahamed R Prathiksha K M
12.25 pm	RAMM 2034	Development Of Light Weight Brick Using Industrial And Agricultural Waste : A Review	Rajendra Dighade, Sakshi Mujumdar, Abhjeet pachpole, Jiteen Sakhare, Lucky Bhimte, Tejash Rukhamode, Vivek Bansod
02.00 pm	RAMM 2047	Effect of Load Uncertainty on Deflection of Steel Beam	Chinnu Sabua, Praveen Nagarajana, and Robin Davis Pa.
02.20 pm	RAMM 2064	Experimental Investigation on Use of Electronic Waste in High Strength Concrete	Pawan Hinge, Tushar Shende, Harshal Sahare, Bhupesh Nandurkar, Jayant Raut

02.40 pm	RAMM 2066	A Taguchi-based approach for optimization of compressive strength for M60 grade GGBS-Dolomite based Geopolymer concrete	Najeeb Manhanpally, Praveen Nagarajan and Suman Saha
03.00 pm	RAMM 2078	A Comparison between One part and Two Part Rubberized Geopolymer Concrete and Its CO ₂ assessment	Arjun Raj P K, Ravi Joshy, Sarath D, Praveen Nagarajan, A.P.Shashikala
03.20 pm	RAMM 2080	Carbonization and characterization of rice husk for biochar based composite	Brahamdeo Kumar Yadav, Amit Kumar
03.40 pm	RAMM 2092	Assessment of ability to degrade Polychlorinated Biphenyls by microbial strains isolated from soil samples of power stations	Le Thi Hong Tuyet, Do Vinh Duong, Le Duc Trung Thanh Tran
04.00 pm	RAMM 3010	Generation of Solar Energy and Rain Water harvesting	Vivek Sanap, Arya Sapre, Sanket Lavalekar, Pramod Kale
04.20 pm	RAMM 4043	Contemporary Materials and their Trailblazing Utilization: Spent Coffee Grounds Infused With M-30 Grade Concrete Optimal Strength Determination	Sandhya Kiran J K, K Chaitra, Veerla Vamsi Kalyan, Vuttukuru Naveen Kumar

Session: CE02 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair(s):

Dr. S. VELUMANI, Prof / Mech, VCET

Google meet link: <https://meet.google.com/yjo-dtdi-btb>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 3029	Mesoscale Simulation for Young's Modulus of Concrete Using Representative Volume Element: A Parametric Study	Jiyad, Ayshath Baadira K B, Deena Lazar, Praveen Nagarajan, U. B. Jayadeep
11.05 am	RAMM 3031	Assessment of the Stability and Stresses of an Existing Dam based on IS 6512:2019	Mohammed Thowsif, Praveen Nagarajan, Santosh G. Thampi
11.25 am	RAMM 3047	Enhancing Structural Efficiency in 3D printed Concrete Beams Through Truss Topology and Barbed Wire Reinforcement	Sajitha R Nair, Akshaya PR, Praveen Nagarajan, Santosh G
11.45 am	RAMM 3048	Machine Learning Techniques for Estimating Compressive Strength of High-Performance Concrete - A Comparative Study	D. Maruthachalam, Vinodhkumar Shanmugasundaram and G. Shyamala
12.05 pm	RAMM 3053	Experimental Study on Flyash Based Glass Fiber Foam Concrete	C Karthik, S Suresh and S C Sarathkumar
12.25 pm	RAMM 3086	Poly Ferric Chloride (PFC) in post-aquaculture waste water treatment: enhancing algal biomass harvesting through coagulation dynamics.	Thanh Tran, Do Vinh Duong, Doan Thi Thu Hang, Trung Duc Le and Xuan-Thanh Bui
02.00 pm	RAMM 3093	Effect of Clay Brick Dust on Mechanical Properties of Fly Ash Based Geopolymer Concrete	Abdu Salam P, Sarika Rajan, Mini Remanan
02.20 pm	RAMM 4011	Forecasting Urban Construction and Demolition Waste Generation with LSTM Neural Networks	Gambheer Singh Kathait, Surita Maini, Vishal Rohilla, Nitin Sundriyal,

02.40 pm	RAMM 4012	Experimental and Artificial intelligence based Analysis of the flexural characteristics of Hybrid Fibre reinforced concrete using Steel, Glass and Polypropylene	S. J. Princess Rosaline, P. Latha,V. A. Shanmugavelu, Tamilmmani.A,D. Thayalnayaki, J. Santhosh
03.00 pm	RAMM 4015	Optimization and Simulation of Water Distribution Network System: A Comprehensive Review	Rajesh Bhagat, Shahu Zade, Kishor Gorre, Divya Nighade, Mahek Khan, Akshay Talwekar, Ved Shinde, Atul Kurzekar, and Jayant Raut
03.20 pm	RAMM 4019	Performance of Natural and Calcined Zeolite as an Admixture of Concrete	K. Anitha, K. Narasimhulu, H. Prasad Raju, K. Narshimha Raju
03.40 pm	RAMM 4024	Experimental Investigation of RC Beam Strengthened by Hybrid SSWM-GFRP Wraps	Vipul Jayesh Kalyani, Harsh Salimbhai Khoja, Digesh D. Joshi and Paresh V. Patel

Session: ME01 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair:

Prof. A. T. NAVIN PRASAD, AP / Mech, VCET

Google meet link: <https://meet.google.com/wfk-fkta-arh>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 1033	Application of Viscoelastic Material for Vibration Suppression in Power Loom	Prahalad Sawant Badkar, M. M Benal
11.05 am	RAMM 1056	Optimization of Magnetic Abrasive Finishing Process Parameters on EN31 Steel Material	Krunal P. Modi, Sanket N. Bhavsar
11.25 am	RAMM 1057	Optimization of Rocker Mechanism in Formula SAE Car – Simulation Driven Design	Mukund Nalawade, Ojas Chougule, Aditya Chafekar, Yadnesh Chhatre, Swarup Chopade, Paras Chopkar
11.45 am	RAMM 1058	Mechanical and Physical Properties of Aluminium Silicon Alloy Based Hybrid Metal Matrix Composite Reinforced with Biomass	Subhashish Jena, Ajit Senapati and Sasank Shekhar Panda
12.05 pm	RAMM 1066	Assessment of Mechanical Characteristics in Hybrid Polymer Composites Reinforced with Basalt Fiber and silicon Nanotube Fillers	Manikandan S P, B.Avinash, Karthic Subramaniyan I, J. Kesavan,V. Pandiaraj, P.Srinivasan
12.25 pm	RAMM 1067	Effect on Characteristics of Connecting Rod with Aluminium Hybrid Metal Matrix Composite	R.Rabin, R.Rameshpalappan, T.Judsonurai, A.UnniKrishnan, N.Ramasamy
02.00 pm	RAMM 1068	Experimental Investigation of Nano-Alumina Particle-Enhanced Bamboo/Jute Fiber-Reinforced Composites on the Tensile, Impact, and Flexural Properties of the Composite	R.Thiyagarajan, Karthic Subramaniyan I, V. Arun Prasath, J. Kesavan, Shivakumar N, Manikandan S P
02.20 pm	RAMM 1069	Analysis of Mechanical Properties in natural Composites Using Sisal Fiber and Nano Rice Husk Powder Reinforced Epoxy Matrix	R.Thiyagarajan, Nagaraj Velusamy, B.Avinash, J. Kesavan, Shivakumar N, Manikandan S P

02.40 pm	RAMM 1075	Failure Investigation of 5T C-hook of EOT Crane	G. Vara Prasad, Sunil Nair
03.00 pm	RAMM 1078	Characterization and compatibility Testing of rubber fuel hoses with ethanol blended petrol in Automotive Fuel Lines	Manoj Kumar B
03.20 pm	RAMM 2003	Non-Newtonian Fluid and it's Analysis Using Various Applications	Ketki Shirbavikar, Aayan Sayyed, Mallika Ambhore, Ishwari Anasane, Himanshu Angane, Anish Naikwadi
03.40 pm	RAMM 2004	Complex Part Manufacturing and Testing of Electroplated 3D Printed PLA Electrodes in EDM with Stainless steel	Pramod Kale, Ganesh Dongre, Deepak Munde, Suryan Mukane, Ghanshyam Muggle, Nitesh Rahangdale, Atharva Korde, Mohammad Monis Umar
04.00 pm	RAMM 4017	Artificial Neural Network Optimizing a Novel Nano Cutting Tool via Powder Metallurgy with a Machine Learning-Based Taguchi Approach	R.Thiyagarajan, Mohamed Ismail A, C.M. Vivek, A Pugazhenthii, V.Pandiaraj, Manikandan S P

Session: ME02 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair:

Prof. M. GOPI, AP / Mech, VCET

Google meet link: <https://meet.google.com/pvw-izfr-fjz>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 2008	Welding of Mild Steel: Optimization of Current Density using Ultrasonic Parameter	Minati Sahu, Arpita Ghosh and Sarmishtha Palit Sagar
11.05 am	RAMM 2009	Review of Piezo-Electric Sensor-Based Power Generation by Footsteps	Vimal A, Preethi R, Mohan Prasanth, Jeevan Prasath
11.25 am	RAMM 2012	Parametric Analysis of Electric Discharge Machining for Hybrid Composites	Kamalkishor Maniyar and Smita Suhane
11.45 am	RAMM 2022	Predictive Manufacturing: State of the Art, Design Standards, Limitations, Challenges, and Future Perspectives	Rajkumar Palaniappan
12.05 pm	RAMM 2029	The influence of the shape of ceramic particles on the rheological properties of ceramic-polymer mixtures used for the manufacture of filaments in 3D printing	E.V. Kuznetsova, E.A. Bentseva, Yu.O. Pristiniski, N.W. Solis Pinargote, A. Smirnov
12.25 pm	RAMM 2041	A Review on Parametric Analysis and Scopes of Abrasive Jet Machining Process	B. K. Bhuyan, Vikrant Singh, Shivam Khanduri, Tejesh Suriseti, Shashank Sen and Deepak Bhardwaj
02.00 pm	RAMM 2043	Optimization of Mechanical properties of Calotropis Gigantea Fiber reinforced Epoxy Resin Composites using Response Surface Methodology	Suganth V, and Velumani S
02.20 pm	RAMM 2049	Numerical investigation of heat transfer in a rectangular channel equipped with obstacles with different attack angles using (H ₂ O-Ag) nanofluid as a flow fluid	Sarah Rabeea Nashee, Hussam Ali Khalaf, Mohammed Jameel Alsalhy, Alaa Mohammed Lafta

02.40 pm	RAMM 2050	Silicone Mold Making: A Versatile and Cost-Effective Solution for Diverse Applications	Balachandra Shetty, G J Naveen and Shailesh Rao
03.00 pm	RAMM 2051	Manufacturing and Characterization of Mechanical properties of Natural Rubber and its Nanocomposites	Balachandra Shetty, Arun Kumar, G J Naveen, and Chandrasahai Rai
03.20 pm	RAMM 2053	Influence of Process Sequence on Microstructure and Microhardness of Electron Beam Welded Low Alloy Steel for Gear Applications	Vijaya L. Manugula, G.Chandra Mohan Reddy
03.40 pm	RAMM 2061	Effect of Packing factor on Energy performance of Solar PV/T water-heating collector system – An experimental study	Prakash Rajamani, Vijayan Selvaraj, Mohankumar Velusamy, Manickaraj Karuppusamy, Ramakrishnan Thirumalaisamy, Kumaravelan
04.00 pm	RAMM 2042	Deep Learning Implementation of Facial Emotion Recognition using ECG and GSR	R Sudha, Arul P, Abirami N, Manishankar, Padmapriya

Session: ME03 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair(s):

Prof. T.C.R. DINESH, AP / Mech, VCET

Google meet link: <https://meet.google.com/cnj-oamv-hnw>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 2062	Effect of Tea Leaf Waste Powder Fillers on Mechanical Properties of Snake Grass- Jute Fibers Reinforced Hybrid Epoxy Composites	Mohankumar Velusamy, Deepan Selvan, Prakash Rajamani, Ramakrishnan Thirumalaisamy, Manojkumar Aruchamy and Kumaravelan Radhakrishnan
11.05 am	RAMM 2076	Investigation of the Mechanical Behavior of Heat-Treated Low-Carbon Mild Steel	Somnath Adhikari, Shambhu Pandit, Anant Prakash Agrawal, Shahzad Ali
11.25 am	RAMM 2087	Effect of thermal oxidation temperature on microstructural characterization, mechanical behaviour and wettability	Renu Kumari, Kumari Archana, Sumit Kumar, Biraj Kumar Sahoo and Kumari Kanchan
11.45 am	RAMM 3004	Optimization of metal removal rate, surface roughness and hardness using the Taguchi method in CNC turning machine	Nada M.Abed , Iltifat Lazim Edan , Hind L. Tbeni , Zahraa Aamir Auda
12.05 pm	RAMM 3008	Numerical investigation for testing performance of ribs turbulators with various arrangement in a 3D rectangular duct	Sarah Rabeea Nashee, Khudheyer S. Mushatet
12.25 pm	RAMM 3009	Analysis of a Snake Movement Inspired Soft Actuator using FEA	Narendra Gariya, Amir Shaikh
02.00 pm	RAMM 3014	Review on 3D-printed Powder Metallurgy Alloys with Tailored Corrosion Resistance and Surface Properties for Advanced Technology Applications	Rayappa Shrinivas Mahale, Adarsh Patil, Krishnamurthy Goggi, Vaibhav Raibole, Prashant Kakkamari, Shashanka R

02.20 pm	RAMM 3016	Influence of Magnetization Induced by Halbach Arrays on Condensation Heat Transfer Coefficient of 1,1,1,2-Tetrafluoroethane	Rahul G. Deshmukh, Dinesh R. Zanwar, Sandeep S. Joshi, Yogesh G. Joshi
02.40 pm	RAMM 3018	Impact of Yttria Stabilized Zirconia - coating on Incoloy 800H superalloy with Magnesium Chloride molten	Kamatchi Hariharan M, Ravi Kumar K, Dinakar N Kumar V
03.00 pm	RAMM 3019	Experimental Investigations for Improvement the Mechanical Characteristics of Advanced Aluminium-Epoxy Material	Bijan.Mallick, Azzam S.Hameed, Shishir Kumar Biswas, Dhiraj Mondal, SK Hikmat, Bidyut Karmakar, Abhijit Chakraborty
03.20 pm	RAMM 3020	Multi-Response Optimization of Micro-ECDM Performances during Micro-profile Generation on Brittle Material	Krishnendu Mondal, Azzam S.Hameed, Dhiraj Mondal, Shishir Kumar Biswas, Bijan Mallick, Jayanta Kumar Mahato
03.40 pm	RAMM 3023	Impact of Friction Stir Welding and Sampling Direction on Aluminum Alloy Joints	S. Suresh, D. Velmurugan, J. Balaji, Sampath Boopathi, R.Selvapriya
04.00 pm	RAMM 2011	Softmax Regression based Deep Auto Encoder Classification for Engineering Alloys	P. M. Siva Raja, Vidhya S, Sumithra R. P.

Session: ME04 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair:

Prof. V. MOHAN KUMAR, AP / Mech, VCET

Google meet link: <https://meet.google.com/myg-anpk-hku>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 3040	Optimization of Process Parameters in WEDM using Integrated Approach of ANN-Genetic Algorithm	Achyut Mishra, Dipesh Kumar Mishra, Anurag Chaubey, Vaishnavi Mishra
11.05 am	RAMM 3041	IOT of Engine condition for Predictive Maintenance	Amith Gadagi, Chandrashekar Adake and Arun Tigadi
11.25 am	RAMM 3050	Process Parameter Optimization of Electro Chemical Discharge Machining of Borosilicate Glass Using Grey Relational Analysis and Fuzzy TOPSIS	Senthil Kumar Duraisamy, Navin Prasad Amaravathi Thulasimani, Yoganandh Jayaraman, Sathish Gandhi Veeramalai Chinnasamy and Ramakrishnan Kannaivan
11.45 am	RAMM 3067	Influence of FSW process parameters on mechanical properties of Dissimilar Aluminum butt welded	S Swetha, Priyadarsini Morampudi and K.Aruna Prabha
12.05 pm	RAMM 3068	Tribological Behavior of Low Carbon Steel, Grade AISI1018 overlayed with Nickel based MMC + WC using plasma transfer arc welding	Sudarshan D. Butley, Lalit P. Dhole, Ganesh R. Chavhan
12.25 pm	RAMM 3069	Tool Condition Monitoring in Double Tool Hard Turning of AISI 52100 Bearing Steel using Cutting Force Analysis Category of Registration - Student	Nikhil V. Khatekar, Kalidasan R and Raju S. Pawade
02.00 pm	RAMM 3071	Effects of Tool Traverse and Rotational Speed on Material Flow and Temperature Distribution in Friction Stir Welding	Anil Kumar Maurya, Anuj Jain and Akshoy Ranjan Paul

02.20 pm	RAMM 3074	Comprehensive Review on Single Slope Solar Still – Recent Advancements, Performance Enhancement and Economic Analysis	Navin Prasad Amaravathi Thulasimani, Yoganandh Jayaraman, SathishKumar Thangavel Ramalingam, Senthil Kumar Duraisamy, Ramakrishnan Kannaiyan, Kumaravelan Radhakrishnan
02.40 pm	RAMM 3076	Impact of Layer Orientation on Impact Strength of 3D Printed Poly-Lactic Acid Under Thermal Load	Abhineet Singh, Pragyan Jain, S.V.H. Nagendra
03.00 pm	RAMM 3091	Design and Optimization of a Laser-Sintered Fuselage of an Unmanned Aerial Vehicle	Aditya Gupta, Vaibhav Pawar, Aaditya Rampal, Dhaval Shah, Absar Lakdawala and Vedant Soni
03.20 pm	RAMM 4005	Assessment and FEA simulation of 3D printed topologically optimized tensile and compression specimens	A. Monzamodeth Román-Sedano, Fermín Castillo, Bernardo Hernández-Morales, Bernardo Campillo, Osvaldo Flores
03.40 pm	RAMM 4008	Optimization of Helmet Design for Improved Safety	Adarsh Patil, Madhusudana H K, Isra Sajid Addewale, Roshani Vinayak Gunagi, Sai Vamsi Jally, Nandan Kumar Jadhav, Sushma Mahantesh, Shivnaikar
04.00 pm	RAMM 4026	Numerical investigation of contact force on composite panels subjected to hail ice impact	Libin T, K. Ramajeyathilagam

Session: ME05 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair:

Prof. D. KESAVAN, AP / Mech, VCET

Google meet link: <https://meet.google.com/hjc-rfxr-hfe>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 3034	Thermogravimetric Analysis of Locally Available Biomass wastes for Synthesizing Sustainable Fuel	Raji S, D D Sarode and Sreedevi Lekshmi
11.05 am	RAMM 2071	Investigations on optical properties, total control of Gram-positive and Gram-negative bacteria, anti-fungal activity using Pyridin-2-Amine 6-Chloronicotinate (P2A6CN) Crystal	Mohanraj S, Sinthiya A
11.25 am	RAMM 2072	The Optimal Numerical Investigation of Hubbell Rectangular Source Integral Using the Monte-Carlo Method	K.T. Shivaram
11.45 am	RAMM 3006	Machine Vision-based Tool Location and Wear Monitoring in Turning operation: Optical Setup and Image Processing Approaches	Anitha R, Siranthini B, Saranya S N, Magesh M, Karthikeyan S
12.05 pm	RAMM 3007	Non-Destructive Detection of Material Defects in Monel Alloy using Force and Acoustic-Emission Measurements during turning operation	Siranthini B, Anitha R, Saranya S N, Magesh M, Karthikeyan S
12.25 pm	RAMM 3038	Optical Properties, Antibacterial & Antifungal activity of Pyridinium-2-Amine Isonicotinate Pyridine-2-Amine (P2AIP2A) Crystal	Mohanraj S, Sinthiya A

02.00 pm	RAMM 3081	Artificial Intelligence Algorithm for the Automation of Friction Stir Welding of AA 5085 and AA 6061 Aluminum Alloys	Rajasekaran Saminathan, Gaber A. El Awadi, Feras Hassan Ali Mawkili, Rashed Salem Dobian Al Dobian, Yasir Saleh Hussain Bahri, Mohammed Ali hurubi, Khaled Emad Hasan Fakkeerah, Mansoor Jobran Saleh Ghazwane, Amer Saleh M Alyami
02.20 pm	RAMM 3083	Unveiling the Potential of Recron Fiber-Reinforced High-Performance Concrete: A Study on Auracast102 and Partial Cement Replacement with Diverse Mineral Admixtures	Manisha Rangu, Sudharsan N, S Praburanganathan, N Srinivas Rao
02.40 pm	RAMM 4018	Investigating on Mechanical Properties of Polyester Hybrid Composites Reinforced with Jute and Rice Husk Filler	R Udhayasankar, A Pugazhenthii, R.Thiyagarajan, Mohamed Ismail A, V.Pandiaraj, C.M. Vivek
03.00 pm	RAMM 4027	Behaviour of geopolymer concrete at Elevated temperature and thermal Shocks	Jalaneela Manoj Kumar, N.Sudharshan
03.20 pm	RAMM 4040	Study of Transitional Stresses in a Rotating Disk Under the Effect of Different Poisson Ratios	Ambika, Jatinder Kaur and Pankaj Thakur
03.40 pm	RAMM 4041	Effect of Anisotropy on Thick-Walled Cylinder under Steady Internal Pressure	Savita Bansal and Satya Bir Singh
04.00 pm	RAMM 4042	Modeling the Creep in Pressurized Anisotropic Thick Walled Spherical Vessel	Pushwinder Kumar, Satya Bir Singh and Sarvesh Kumar Jain
04.20 pm	RAMM 1077	Transforming Military Equipment With Fiber-Reinforced Polymer Composites:A Review Paper	Aloukik V Sutar, V B Ugale

Session: PH01 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair(s):

Dr. DEEPA JANANAKUMAR, Prof / Physics, VCET

Google meet link: <https://meet.google.com/auq-epex-iyh>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 1085	Sensing Analysis of PVDF-Gr Composite Films	Mohd Umer Ansari, Priya Khanduri, Varij Panwar
11.05 am	RAMM 2016	Finite-T Intra- and Inter-wire Pair Correlation Functions of a Coupled Electron-Hole Quantum Wire System	Preeti Rani, Kulveer Kaur and Vinayak Garg
11.25 am	RAMM 2048	Dependence of Optical and Magnetic Properties of Cobalt Ferrite Nanoparticles on Particle Size	Grish Chandra and Neelam Sharma
11.45 am	RAMM 2095	Bio-efficacy of Ag doped NiO bee-hive spherical like nanostructure using greener strategy	P.Ponnarasi, G.Mahalakshmi
12.05 pm	RAMM 2097	Nickel Oxide nanopowders Synthesized using Camellia Sinensis leaves extract, Characterization and Study of its Antibacterial activity	K.Vanasundari, P.Ponnarasi, G.Mahalakshmi
12.25 pm	RAMM 3042	Device simulation and performance optimization of simplified silicon solar cell	Roshi and Vivek Gupta
02.00 pm	RAMM 3056	Relevance of the Next-Nearest-Neighbor (NNN) Pair Hopping Interaction in High-T _c Superconductivity	Papiya Pal, Piyali Ghosh and Nanda Kumar Ghosh
02.20 pm	RAMM 3073	Adsorption of alkaline-earth metals (Be, Mg, Ca) on Armchair Silicene nanoribbons: A DFT studying	TRAN Minh Tien
02.40 pm	RAMM 3077	Bioactivity and Anticancer Properties of Samarium Oxide Doped CaO-P ₂ O ₅ -SiO ₂ Bioceramics	Kanika Chandel, K.J. Singh, Gurdev Preet Singh, Sharabjit Singh, Saroj Arora

03.00 pm	RAMM 3082	Enhance Upconversion Fluorescence in Yb ³⁺ /Tm ³⁺ Codoped Tungsten Tellurite Glasses	Bijay Kumar Guptaa, Ghizal F. Ansaria, Sukhdev Bairagi
03.20 pm	RAMM 4010	Structural properties of Ag crystalline nanoparticles: A molecular dynamic simulations	Mai Van Dung and Nguyen Thi Huynh Nga
03.40 pm	RAMM 4021	Holmium-Ytterbium ions doped Tungsten Tellurite glasses for green-red luminescent applications	Ghizal F. Ansari, Anil Ashutosh, S.K. Sharma, D.K. Giri
04.00 pm	RAMM 3094	Effect of Cobalt as a Binder on Structural, Surface and Mechanical Properties of Tungsten Carbide	Akhilesh Kumar, Anju Dixit, Shikha Shukla and Dig Pratap Singh
04.20 pm	RAMM 3005	Characterization of TiO ₂ Nanoparticles in Green Synthesis using Punica Granatum Extract For Anticancer (A549 Cell Lines) Activity	P.Sureka

Session: AMC01 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair:

Dr. K. RATHI, Prof / Mathematics, VCET

Google meet link: <https://meet.google.com/ofu-zfyq-cmk>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 1008	On detour index of some special classes of join of graphs	Y. Sherlin Nisha, V. Rajeswari, Y. Merlin Nisha
11.05 am	RAMM 1036	Unsteady MHD Flow of Power law Fluid over a Permeable Surface	Dr. G.Padma, Dr.S.V.Suneetha, Dr. Raghunath Reddy, Dr.S.K.Nuslin Bibi
11.25 am	RAMM 2085	Efficient Monte-Carlo Quadrature Method for Numerical Integration of Arbitrary Functions over Tetrahedral region	S. Rakesh and K.T. Shivaram
11.45 am	RAMM 2086	Calculation of Surface Integrals Over Curved Domain by Chebyshev Wavelets Quadrature Method	Lekhana.K and K.T. Shivaram
12.05 pm	RAMM 3037	Analysis of Angular Speed and Stresses in a Disc Without Mechanical Load Under Varied Temperature Conditions	Neha Sharma, Jatinder Kaur and Pankaj Thakur
12.25 pm	RAMM 3062	A Note on Singular Value Decomposition	Mahaboob, Leela, Bhagyalakshmi Kothuru, Balaji Prakash, Abdur Raheem Mohammed, Nandakishore
02.00 pm	RAMM 3089	Matrix Applications in Cryptography	Leela, Shaik Mohiddin Shaw, Nandakishore S, Arunakumari M, Gopi Sai and Mahaboob
02.20 pm	RAMM 4013	Enhancing Predictive Modeling in Power Plants: A Comparative Analysis of ANFIS and ANN for Electrical Energy Output Estimation	C Vimala, N Jayanthi, P Vijayalakshmi, D Umamaheswari, M Harikumar, S Dinesh Mukilan

02.40 pm	RAMM 4014	Comparative Analysis of ANN and ANFIS Models for Solar Energy Prediction:Advancing Forecasting Accuracy in Photovoltaic Systems	P Vijayalakshmi, S. Buvaneswari, M Harikumar, A Sasikala, S Prabhu, N Jayanthi
03.00 pm	RAMM 1048	Plant Mediated Green Synthesis, Characterization and Applications of Bimetallic Nanoparticles	Ranipadmini Velamakanni, Shanthipriya Ajmera, Anil Kumar Marapaka, Ramchander Merugu
03.20 pm	RAMM 1084	Sensing performance of sugarcane based membrane	Sribidhya Mohanty,Varij Panwar
03.40 pm	RAMM 2082	The Magnetic Iron Oxide Modified Activated Carbon derived from Terminalia Arjuna Bark for Efficient Removal of Congo Red Dye from Aqueous Solution	Goudu Mohini, Jitendra Kumar Sahoo and Shraban Kumar Sahoo
04.00 pm	RAMM 3079	Mechanistic Elucidation of Corrosion Potential Measurement for Anti-corrosive Competence of Green Leaf Extracts on Rebar	Laxman Gupta, Nabin Pandey, Madhab Gautam, Jagadeesh Bhattarai Nootan Prasad Bhattarai
04.20 am	RAMM 3085	Optimizing RO filtration with PAC coagulation: Enhancing water treatment in saline-affected Mekong Delta	Do Vinh Duong, Nguyen Van Phuoc, Nguyen Hoang Thai, Van ThiThanh Ho, Le Duc Trung, Phung Chi Sy, Thanh Tran

Session: EE01 (Online)

Date: 29.12.2023

Time: 10.45 am to 04.30 pm

Session Chair(s):

Dr. K. JAYANTHI, Prof / ECE, SNSCT

Google meet link: <https://meet.google.com/xed-eimc-nnp>

Time	Paper ID	Paper Title	Authors
10.45 am	RAMM 1016	Hybrid composite based on CuCo_2S_4 /rGO as an efficient Pt free triiodide reducing agent for dye-sensitized solar cell application	S.Abinaya, R.Sakthivel, M. Parthibavarman
11.05 am	RAMM 1070	Design of a Radiation Pattern Reconfigurable, Leaky Wave Antenna	Ruchi Agarwal, Devesh Rai, Mohd Husni Mubarak, Divyanshu Rai, Om Pratap Singh
11.25 am	RAMM 1073	Doping of Hcl And Milled Graphite towards the Enhancement of The Electrical Properties of Polypyrrole	P Nandakumar, A. Shankar Ganesh, BA. Anandh, N Amba Sankar
11.45 am	RAMM 1086	Manufacturing of high-count 24-layer PCBs using polyphenylene oxide blend resin-based laminates and prepregs for space electronics packaging	C. Hanumanth Rao, Amrendra Pratap Singh, Selvan C., Abhay C., M. Saravanan, Selvi R.
12.05 pm	RAMM 2014	Comparison of Two Gain Enhancement Techniques for a Rectangular Patch Antenna Designed for 6G	Ribhu Abhusan Panda, Ritesh Kumar Patro, Rangala Ashish Kumar, Priyabrata Rath, Tapas Ranjan Acharjya
12.25 pm	RAMM 2040	Enhanced radiation characteristics of graphene-based Multi band MIMO antenna by PBG and superstrate dielectric grating for Sub-THz applications	Ranjana Kumari, Sukanya Pramanik, Shachee Mishra, Shreya Raj Vinay Kumar Tomar
02.00 pm	RAMM 2044	Graphene incorporated various TMDs (MoS_2 , CoS_2 and NiS_2) as a counter electrode for Pt-free efficient dye-sensitized solar cells	J. Dineshkumar, R.Sakthivel, M. Parthibavarman, A. Geetha
02.20 pm	RAMM 3075	Load Analysis of Rectifier for EV (Electric Vehicle) Wireless Charging System	Mohd. Aslam, Dipesh Kumar Mishra, Anurag Chaubey

02.40 pm	RAMM 3078	2:4 Ternary to Binary Converter Using Double Pass-Transistor Logic	M.Madhumalini, Rangeetha.S, T. Bharani Prakash, K.S. Neelukumari, S. Nagakumararaj, R. Rithika
03.00 pm	RAMM 3080	Economical sensor-based devices for remote alcohol monitoring	Keka Mukhopadhyaya, Fiza Mukarami, Chandana T N, Vaishnavi M, Chandana K N
03.20 pm	RAMM 4001	Dielectric and Piezoelectric properties of Sn doped Ba(Ti _{1-x} Sn _x)O ₃ (BT-xBS) electroceramics for 0.07 ≤ x ≤ 0.11	Gambheer Singh Kathait, Surita Maini, Vishal Rohilla, Nitin Sundriyal,
03.40 pm	RAMM 4004	Adaptive Spectral Kurtosis Filtering using Morlet Wavelets for Transient Signal Separation: Application to turning operation	Kavyashri G
04.00 pm	RAMM 4023	A multilayered Circular Polarized antenna based on a Slow Wave-Substrate Integrated Waveguide	Ruchi Agarwal, Rajneesh Jaiswal, Ratnotpal Narayan Singh Rai, Raj Singh, Rishikesh Tiwari
04.20 pm	RAMM 3027	Synthesis and characterization of La _{1-x} Sr _x Y _{0.50} Co _{0.50} O ₃ (0.10 ≤ x ≤ 0.40) perovskite material for cathode of solid oxide fuel cell	Sangeeta Devi, Manokamna, Naiem Ahmed, Pawan Heera, Vikas Duggal, Neha Sharma, Surinder Paul