

Fourth International Conference on
Recent Advances in Materials and Manufacturing
(ICRAMM 2022)

08 - 09, December 2022 | Erode, India | <http://www.icramm.com/>

Program Schedule

Date	Time	Event
08.12.2022	09.30 am to 10.00 am	Inaugural Function Google meet link: https://meet.google.com/onu-psiy-cgt
08.12.2022	10.00 am	Keynote 1: Dr. Naimah Binti Ibrahim Universiti Malaysia Perlis, Malaysia Google meet link: https://meet.google.com/onu-psiy-cgt
08.12.2022	10.45 am	Keynote 2: Dr. B. Singaravel Vignan Institute of Technology and Science, Telengana Google meet link: https://meet.google.com/onu-psiy-cgt
08.12.2022	11.30 am to 05.00 pm	Session: RAMM(Physical)
		Session: CE01(online)
		Session: CE02(online)
		Session: CH01(Online)
		Session: CHE01(Online)
		Session: ME01(online)
		Session: ME02(online)
		Session: ME03(online)
08.12.2022		Session: PH01(online)
09.12.2022	09.45 am	Keynote 3: Dr. G. Rajamurugan VIT University, Vellore Google meet link: https://meet.google.com/onu-psiy-cgt
09.12.2022	10.30 am to 04.15 pm	Session: ACA01(Online)
		Session: CE03(online)
		Session: EE01(online)
		Session: ME04(online)
		Session: ME05(online)
		Session: ME06(online)
		Session: PH02(online)
09.12.2022	04.15 pm	Session: PH03(online)
09.12.2022	04.15 pm	Valedictory Function

CH - Applied Chemistry

CE - Civil Engineering

ACA – Applied Chemistry & Mathematics

CHE- Chemical Engineering

PH - Applied Physics

ME- Mechanical Engineering

EE – Electrical & 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: RAMM (Physical)

Date: 08.12.2022

Time: 11.30 am to 03.00 pm

Venue: Seminar Hall-1, VCET

Session Chair(s):

1. Dr. R. Kumaravelan, Professor/Mechanical Engineering, VCET

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
11.30 am	RAMM 3064	Optimization of Methane yield for a Low Temperature region based on Hydraulic Retention rate and Temperature control	Sreevidhya C*, S.Balamurugan	Amrita School for Sustainable Development, Amrita Vishwa Vidyapeetham, Amritapuri, India
11.50 am	RAMM 6039	Structural, morphological and magnetic analysis of hydrothermally synthesized MnFe ₂ O ₄ magnetic nanoferrites	T.Jose Antony, K. Thirunavukkarasu, K. Jagannathan	Department of Physics, SRM Institute of Science and Technology, Vadapalani Campus, No.1, Jawaharlal Nehru Road, Vadapalani, TN, India
12.10 pm	RAMM 6023	Synthesis and Characterisation of MoS ₂ Nanoparticles Reinforced Polyaniline Matrix Composites	Jeevagan K, Satheeshkumar E, Jagannathan K*	Department of Physics, SRM Institute of Science and Technology, Vadapalani Campus, No.1 Jawaharlal Nehru Road, Vadapalani, Chennai-600026, Tamil Nadu, India
12.30 pm	RAMM 3028	Ultrasonic, transport and vibrational frequency analysis of non-aqueous peptide + electrolyte solutions	Geetha R*, Padmavathy R	PG & Research Department of Physics, Seethalakshmi Ramaswami College, Affiliated to Bharathidasan University, Tiruchirappalli-620 002, Tamil Nadu, India.
02.10 pm	RAMM 2066	Treatment of Textile Dyeing Wastewater Using a Low-Cost Adsorbent	S.Kalai Selvi, M.Eswaramurthi	Department of Chemistry, Velalar College of Engineering and Technology, Erode-638 012, India
02.30 pm	RAMM 3017	Growth and Characterization of Oxalic Acid Doped Guanidine Carbonate (OGC) Single Crystal	S.Devi, Deepa Jananakumar	Department of Physics, Velalar College of Engineering and Technology, Thindal, Erode 638012, India.
02.50 pm	RAMM 4038	An Experimental Study on the Performance and Emission Characteristics of CI Engines using Bio-oil Blends from Moringa Oleifera	Navin Prasad A T, Prakash R, Yoganandh J, Vijayan S, Kumaravelan R	Department of Mechanical Engineering, Velalar College of Engineering and Technology, Erode-638012, Tamil Nadu, India.

Session: CE01 (ONLINE)

Date: 08.12.2022

Time: 11.30 am to 04.40 pm

Session Coordinator : Dr. R. PRAKASH, AP/Mech, VCET

Session Coordinator contact number : +91 88830 93959

Session Google meet link : <https://meet.google.com/uxh-hcwe-esu>**Session Chair:**1. Dr. P. R. SENTHIL MURUGAN, *Professor/Mechatronics, K.S. Rangasamy College of Technology*

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
11.30 am	RAMM 1022	Bond Strength Characteristics of High Strength Alkali Activated Slag Concrete Mixes	Manjunath R*, Mattur C. Narasimhan, Gundupalli Bhanu Prakash, Saipuspharaj.M	Department of Civil Engineering, BMS College of engineering, Bangalore-560019,
11.50 am	RAMM 2092	Prediction of 28 Days Strength of Ternary Blended recycled aggregate concrete by accelerated curing method	Kadari Abhishek, P.Suresh Chandra Babu	Department of Civil Engineering, Malla Reddy Engineering College, Hyderabad, India.
12.10 pm	RAMM 1034	Study on Strength Properties of Concrete by Partial Replacement of Cement with Sugarcane Bagasse Ash and Coarse Aggregate with Coconut Shells	G.Srivani*, U. Vamsi Mohan	Department of Civil Engineering, Institute of Aeronautical Engineering, Hyderabad, Telangana, Hyderabad, India.
12.30 pm	RAMM 1035	Study on the Engineering Properties of Concrete Made of Polypropylene Fiber and Combination of Silico Manganese Slag	P. Lavanya*, N.Venkat Rao	Department of Civil Engineering, Hyderabad, India.
02.00 pm	RAMM 1048	Seismic Retrofit of Reinforced Concrete Shear walls using fibre reinforced polymer composites	M Manisha Rani*, Dr. R Gopi	Department of Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, India.
02.20 pm	RAMM 1051	Seismic vulnerability assessment of reinforced concrete building	P Harathi and J S R Prasad	Department of Civil Engineering, Institute of Aeronautical Engineering, Hyderabad, India
02.40 pm	RAMM 1055	Experimental investigation on mechanical characteristics of concrete by replacing fine aggregate with stone dust and cement with alccofine-1203	K. Hasini and U. Vamsi Mohan	Department of Civil Engineering, Institute of aeronautical Engineering, Hyderabad, Telangana, 500043, India.

Program Schedule of ICRAMM 2022

03.00 pm	RAMM 1073	A Study on Properties of Concrete on Nano Alumina and Nano Silica	G.Naveen kumar*, N.Venkat Rao	Structural Engineering, Dept. of Civil Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, 500043, India
03.20 pm	RAMM 1086	Partial Replacement of Cement by Using Rice Husk Ash and Silica Fume	J. Ramakrishna*, Dr. R Gopi	Department of Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, India.
03.40 pm	RAMM 2028	Study on interlocking geopolymer earth blocks made with residual rice husk and fly ash	Dr.S.S.Vivek*, B.Alamelu mangai	School of Civil Engineering, Sastra University, Vallam, Thanjavur, India
04.00 pm	RAMM 2070	Impingement of Graphene nanoparticles for abrasion resistance and capillary action in alkali activated concrete	Kamal Kishore, Aaysha Pandey	Advanced Construction Engineering Research Center, Department of Civil Engineering, GLA University, Mathura- 281406, Uttar Pradesh, India
04.20 pm	RAMM 3027	Modeling of strength properties of Geo polymer concrete beam	A Siva Krishna, P.Polaraju, D Ramesh Babu	Department of Civil Engineering, Koneru Lakshmaiah Education Foundation, Guntur, AP, India.

Session: CE02 (ONLINE)

Date: 08.12.2022

Time: 11.30 am to 04.40 pm

Session Coordinator : Dr. C. KARTHIK, AP/Civil, VCET

Session Coordinator contact number : +91 98942-58913

Session Google meet link : <https://meet.google.com/ptb-sbwt-edn>**Session Chair:**

1. Dr. S. KAPILAN, Associate Professor/Civil, Akshaya College of Engineering & Technology, Coimbatore

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
11.30 am	RAMM 3053	Influence of road quality and suspension stiffness on passenger vehicles oscillation in Viet Nam	Luong Van Van, Nguyen Thanh Tung, Khau Tan Phat, Chau Trung Tin	Vinh Long University of Technology Education, Vietnam
11.50 am	RAMM 1023	Experimental Study on Shear Reinforced and Shear Deficient RC Beams subjected to Preloading and Wrapping with CFRP sheets	Prashanth M.H, Manjunath R, Abhilash Koppad, Umesh B, Imran Kuttagola	Department of Civil Engineering, BMS College of Engineering, Bangalore-560019
12.10 pm	RAMM 3099	Crushed-Stone Sand for use in the Development of Self-Compacting Concrete (SCC)	Pavithra, Kallempudi Murali	Department of Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, India.
12.30 pm	RAMM 4028	Investigation of Mechanical Properties of High Performance Concrete Using Industrial Waste with Well Graded Aggregates	S. Deepa*, S. Swathini, A. Dhanalakshmi, A .Leema Margret, V.Ragavan	Department of Civil Engineering, PSNA College of Engineering and Technology, Dindigul, Tamil Nadu, India.
02.00 pm	RAMM 4029	An Experimental Investigation on Strength Properties and Flexural Behaviour of Ternary Blended Concrete	A.Dhanalakshmi, B.G.Vishnuram, P.Muthupriya, M.Indhumathi	Department of Civil Engineering, PSNA College of Engineering and Technology, Dindigul, Tamil Nadu, India.
02.20 pm	RAMM 4030	Fly-Ash and GGBS Based Geo-Polymer Concrete with Granite Powder as Partial Replacement of M-Sand for Sustainability	B.G.Vishnuram, P.Muthupriya, A.Dhanalakshmi, A.Leema Margret	Department of Civil Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai-603203, Tamil Nadu, India.

Program Schedule of ICRAMM 2022

02.40 pm	RAMM 4050	Investigation on Corrosion behaviour of geopolymer concrete using DMS and M-Sand as a fine aggregate under ambient curing conditions.	M. Indhumathi Anbarasan, A.Leema Margret, V.Ragavan, J.Ramprashath	Ramco Institute of Technology, Rajapalayam-626117
03.00 pm	RAMM 4055	Experimental study on the Strength Behaviour of Brick waste debris as Partial Replacement of fine aggregate in concrete: An Green Study Approach	Arivalagan S, Dinesh Kumar K S A	Dr.M.G.R Educational and Research Institute, Maduravoyal, Chennai, TN, 600095, India.
03.20 pm	RAMM 4056	Experimental Studies on Strength and Durability of Alkali Activated Slag and Coal Bottom Ash Based Geopolymer Concrete	M. Yashwanth Reddy, M. Harihanandh	Department of Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, India.
03.40 pm	RAMM 4067	Effect of Spent Bleaching Earth Ash on Sulphate Attack Resistance of Concrete	Raihana Farahiyah Abd Rahman, Hidayati Asrah*, Ahmad Nurfaidhi Rizalman, Abdul Karim Mirasa	Faculty of Engineering, Universiti Malaysia Sabah, Jalan UMS, 88400 Kota Kinabalu, Sabah, Malaysia
04.00 pm	RAMM 4069	The Development of the Compressive Strength of Pervious Concrete using Sugarcane Bagasse Ash and Flyash	Andhole Supriya, K. Murali	Department of Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, India.
04.20 pm	RAMM 4071	Behaviour of High-Density Concrete and Low-Density Concrete in Alkaline Environment	M. Swetha, M.Harihanandh	Department of Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, India.

Session: CH01 (ONLINE)

Date: 08.12.2022

Time: 11.30 am to 04.20 pm

Session Coordinator : Mr. G. RAJA, AP/Mech, VCET

Session Coordinator contact number : +91 98421-04444

Session Google meet link : <http://meet.google.com/hjh-irmf-zfg>**Session Chair:**

1. Dr. S. SHAMSHATH BEGUM, *Assistant Professor/Polymer Engineering,*
B.S.Abdur Rahman Crescent Institute of Science & Technology, Chennai

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
11.30 am	RAMM 1024	Development of tetra glycidyl epoxy-based nanocomposites and analysis of its mechanical, XRD, EDS, and physical properties for high-performance applications	K. Shree Meenakshi*, S.Ananda Kumar	Loyola-ICAM College of Engineering and Technology (LICET), Chennai-034, India
11.50 am	RAMM 1091	Citrus fruit peel extract mediated eco-friendly synthesis of Ag @Co bimetallic nanoparticles and study of their optical and structural characterizations	Kalli Sai Bhavani, Shaik Nagul Shareef, Tummala Anusha, Pallapati Priyanka, and Kollapudi Sreenivasulu	Department of Basic Science and Humanities (Chemistry), Narasaraopeta Engineering College, Narasaraopeta, Andhra Pradesh, India
12.10 pm	RAMM 4021	Study of Mechanical property of treated teak wood and tamarind seed particles in the applications of reinforced composites	Aruna Janani V, Boligarla Vinay, M. Kaliraj, Mukilan K ,	Department of Chemical Engineering, Kalasalingam Academy of Research and Education,
12.30 pm	RAMM 2082	Silver Nanoparticles Synthesized from Carambola Fruit Extract Using Green Method and its Characterization	Binu Varghese*, Denna Babu	Department of Chemistry, Mar Athanasius College, Kothamangalam, Kerala, India, 686666
02.00 pm	RAMM 2089	Effect of graphene oxide particle as nanomaterial in the production of engineered cementitious composites including superplasticizer, fly ash, and polyvinyl alcohol fiber	Naraindas Bheel, Montasir Osman Ahmed Ali, Mehmet Serkan Kirgiz, Nasir Shafiq, Ravindran Gobinath	Department of Civil and Environmental Engineering, Universiti Teknologi Petronas, Bandar Seri Iskandar, Tronoh, Perak, 32610, Malaysia.
02.20 pm	RAMM 3063	Effect of nano graphene powder on the specific surface, porosity, water absorption, antibacterial property, and SEM morphology of lime grouts	Mehmet Serkan Kirgiz, Stanca Cuc*, Gobinath Ravindran, Doina Prodan, Codruța Saroși, Ioana Perhaiță, Rahela Carpa, Marioara Moldovan, Dorin Popa, Simona Varvara, Maria Popa	"Raluca Ripan" Chemistry Research Institute, Babeș Bolyai University, Cluj-Napoca, Romania.

Program Schedule of ICRAMM 2022

02.40 pm	RAMM 4004	Fatty acid, fatty alcohol and acrylate derivatives as friction depressive additives for ultra-low sulphur diesel	Sruthi H, Udaya Kumar D, Pramod Hegde, Manjunatha M.G	Organic and Materials Chemistry Laboratory, Department of Chemistry, National Institute of Technology Karnataka, Srinivasnagar 575025, Mangaluru, India.
03.00 pm	RAMM 4032	Performance Analysis of NiO based perovskite solar cell model	Usha Mandadapu	SCTR'S Pune Institute of Computer Technology, Assistant Professor, Department of physics, Pune, India-411043
03.20 pm	RAMM 5026	Thermodynamics of Compound Forming CdMg Liquid Alloys: A Theoretical Approach	Shayista Ahmad, R.P. Chaudhary, J. Mandal, I.S. Jha	University Department of Chemistry, T.M.Bhagalpur University, Bhagalpur 812007, India
03.40 pm	RAMM 5048	Highly Sensitive Colorimetric and Fluorescent pH Sensor of Physiological Interest	Sanju Das*	Department of Chemistry, Maulana Azad College, Kolkata 700013, India.
04.00 pm	RAMM 6004	Effect of Fly-ash:H ₃ PO ₄ nano catalyst on the synthesis of piperazinyl carbothioamide	Velu Boobal Arasu, Ganesamoorthy Thirunarayanan*, Inbasekaran Muthuvel, Shivakumar Kulanthaivel	Department of Chemistry, Annamalai University, Annamalainagar 608 002, India

Session: CHE01 (ONLINE)

Date: 08.12.2022

Time: 11.30 am to 04.40 pm

Session Coordinator : Mr. E. AJAIKUMAR, AP/Mech, VCET

Session Coordinator contact number : +91 99659-41502

Session Google meet link : <https://meet.google.com/nyu-kfpn-pqh>**Session Chair:**

1. Dr. UMESH B. DESHANNAVAR, *Professor/Chemical Engineering,*
KLE Dr. M.S. Sheshgiri College of Engineering & Technology, Belagavi

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
11.30 am	RAMM 2019	A Comparative study on electrochemical behaviour of Various Electrolytes by Cyclic Voltammetry: GCE as Electrode Material	Navashree N, Parthasarathy P*	Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru-560037, India
11.50 am	RAMM 2073	Synthesis of Biodegradable Material from Banana Peel	Hemlata U. Karne, Parinita Gaydhane, Vedanti Gohokar, Karan Deshpande, Preeth Dunung and Gaurav Bendkule	Chemical Engineering Department, Vishwakarma Institute of Technology, Pune 411037, India
12.10 pm	RAMM 2074	Mathematical Modelling of a Pilot Scale Biogas Plant	Hemlata Karne*, Aayush Bendre, Amartya Singh	Chemical Engineering Department, Vishwakarma Institute of Technology, Pune 411037, India
12.30 pm	RAMM 3070	First-Row Transition-Metal Hybrid Oxide Nanoparticles (MFe ₂ O ₄) as UV-Fenton-like Catalysts for Rhodamine B Treatment: A Comparative Study	Trung Dang-Bao, Thien-An Tran, Hoa-Hung Lam	Faculty of Chemical Engineering, Ho Chi Minh City University of Technology (HCMUT), 268 Ly Thuong Kiet Street, District 10, Ho Chi Minh City, Vietnam
02.00 pm	RAMM 3072	Corn-cob-Derived Nanocellulose-Supported Palladium Nanoparticles towards Catalytic Reduction of 4-Nitrophenol	Trung Dang-Bao, Lien-Nhu Nguyen, Hoa-Hung Lam	Faculty of Chemical Engineering, Ho Chi Minh City University of Technology (HCMUT), 268 Ly Thuong Kiet Street, District 10, Ho Chi Minh City, Vietnam
02.20 pm	RAMM 3074	Composition for concentrated powder color with gradient color effect and color matching	Ajinkya Ghorpade*, Aniket Kotame, Amruni Kothadia, Aryan Mahajan, Adnan Mohammadi, Akansha Bhandarakar, Priyanka Kshirsagar	Department of Chemical Engineering, Vishwakarma Institute of Technology, Pune 411037, India

Program Schedule of ICRAMM 2022

02.40 pm	RAMM 5078	Optimization, Kinetics and Thermodynamics for the Removal of Crystal Violet Dye using Synthesized FeNPs from Carica Papaya Leaves Extract	Chava Venkata Satya Srinivas, Adapa Durga Abhishay, Akkala Kusuma, Yalpala Gowthami, Gummati Sowgandh, Meena Vangalapati	Department of Chemical Engineering, AUCE(A), Andhra University, Visakhapatnam 530003, Andhra Pradesh, India
03.00 pm	RAMM 4087	Modelling and Optimization of Nitrates Adsorbed on Iron plate Electrodes by Electrocoagulation process using Response Surface Methodology	Vykuntam Supriya, Bandela Sowjanya, Dasari Kiran kumar, Venkata Rao Poiba, Meena Vangalapati	Department of Chemical Engineering, AUCE (A), Visakhapatnam, Andhra Pradesh, 530003, India.
03.20 pm	RAMM 5052	Mass Transfer Study of Phenolic Compound Liquid-Liquid Extraction Process from Bio-Oil of Coffee Shell Pyrolysis Product	Dewi Selvia Fardhyanti, Sri Kadarwati, Hadiyanto, Widya Fatriasari, Haniif Prasetiawan	Chemical Engineering Department, Faculty of Engineering, Universitas Negeri Semarang, Kampus Sekaran, Gunungpati 50229 Indonesia
03.40 pm	RAMM 5070	Kinetics and Thermodynamics of Photocatalytic degradation of Acridine Orange and optimization by central composite design	U. Sirisha, Nitilaksha Guduru, Hruthin Sai Muthavarapu, Beera Sushma Ray, Gadi Rohitha, Meena Vangalapati	Department of chemical engineering, AUCE(A), Visakhapatnam, Andhra Pradesh, 530003, India
04.00 pm	RAMM 6044	Investigation of vegetable oil as dielectric fluid in electric discharge machining	T. Niranjan, B. Singaravel, B. Chakradhar and D. Senthil Kumar	Department of Mechanical Engineering, Mahatma Gandhi Institute of Technology, Hyderabad, Telangana-500075, India.
04.20 pm	RAMM 6045	Process parameter optimization in friction stir welding process using Taguchi method	T. Niranjan, B. Singaravel, B. Chakradhar and S.Srinivasulu Raju	Department of Mechanical Engineering, Mahatma Gandhi Institute of Technology, Hyderabad, Telangana-500075, India

Session: ME01 (ONLINE)

Date: 08.12.2022

Time: 11.30 am to 05.00 pm

Session Coordinator : Mr. D. SENTHIL KUMAR, AP/Mech, VCET

Session Coordinator contact number : +91 96552-53618

Session Google meet link : <https://meet.google.com/jng-nkwt-wrd>**Session Chair:**

1. Dr. V. C. SATHISH GANDHI, *Assistant Professor (Sr. Gr.) / Mech,*
University College of Engineering Nagercoil

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
11.30 am	RAMM 1013	Ordinary Least Square Regression Technique for Predicting Wear Rate of EN8 Carbon Steel	Vijaykumar Kalw, Manjunath M Ullegaddi, Praveen Kittali, Balaji Thottempudi	(Mechanical Manufacturing Dept) Ramaiah University of Applied Sciences, Bengaluru, India 560 054
11.50 am	RAMM 1026	CFD Analysis of Different Finned Tube Heat Exchanger Designs Using a Non Newtonian Fluid	Abhijeet kumar Raushan, Rakesh Yadav, Ravindra Mohan, Geetesh Goga	Department of Mechanical Engineering, IES college of Technology, Bhopal
12.10 pm	RAMM 1043	Frequency analysis of thin plates with various cutouts using design of experiments	Sayan Biswas, Ramaanjaneya Varma, Lokavarapu Bhaskara Rao	School of Mechanical Engineering, Vellore Institute of Technology, Chennai Campus, Vandalur-Kelambakkam Road, Chennai, Tamil Nadu, Pin: 600127, India
12.30 pm	RAMM 1047	Discrete stiffness control of soft actuators using laminar jammers made of abrasive materials	Kunal Singh, and Shilpa Gupta	Department of Mechanical Engineering, Maharaja Agrasen Institute of Technology, Maharaja Agrasen University, Baddi 174 103 India
12.50 pm	RAMM 1057	Experimental and CFD Analysis of Fluid Flow in Rectangular Strip based Micro Channel with Nano Fluid	Shivasheesh Kaushik, Subhan Ali, Ajay Kumar Verma, Sohit Panwar, Shrish Uniyal, Subhanesh Goswami, Sushobhit Kindo, Debajit Som, Nitish Kumar Yadav	Department of Mechanical Engineering, Shivalik College of Engineering Dehradun, India
02.00 pm	RAMM 1058	Comparative Analysis of Fluid Flow in Mini Channel with Nano Fluid and Base Fluid	Vipin Uniyal, Shivasheesh Kaushik, Subhan Ali, Sumit Joshi, Mahesh Makhloga, Pankaj Singh Pargai, Saurabh Kumar Sharma, Raja Kumar, Siddharth Pal	Department of Mechanical Engineering, Shivalik College of Engineering Dehradun, India

Program Schedule of ICRAMM 2022

02.20 pm	RAMM 1063	Flow Alteration Technique to Mitigate Wave Drag by Hemispherical Aero-spike Spike for Large Angle Blunted Cone in Hypersonic Flow	Shyam Singh Kanwar, Gajendra Kumar Agrawal, Satish Kumar Gavel, Aditya Singh	Department of Mechanical Engineering, Government Engineering College Bilaspur, 495009, India
02.40 pm	RAMM 1068	Mechanical Characterization of E-Glass fiber/Aluminium powder filled with and without Coconut fiber reinforced epoxy hybrid composite.	S. Ramu, N. Senthilkumar, Saravanan Rajendran	Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, India.
03.00 pm	RAMM 1070	Analysis of discontinuity stress at shell and elliptical head juncture using theory of beam on elastic foundation	Jimmy Daftary, Pooja Talekar, D V Patel, V M Bhojawala*	Mechanical Engineering Department, Institute of Technology, Nirma University, Ahmedabad - 382481, Gujarat, India
03.20 pm	RAMM 1090	Isothermal thermodynamic analysis investigation of the Stirling engine types (alpha, beta, gamma): a theatrical study	Sajjad A. Salih, Baseem A. Aljashaami, Naseer T. Alwan, Mohammed A. Qasim, Sergey E. Shcheklein, Vladimir I. Velkin	Ural Federal University named after the first President of Russia B. N. Yeltsin 19 Mira St., Yekaterinburg 620002, Russia
03.40 pm	RAMM 2023	Effect of Ca Addition on The Microstructure and Creep behaviour of AZ91 Mg Alloy	Hitesh Patila, Ankush Marodkara, Abhijit Ghosha, Hemant Borkara,	Metallurgy Engineering and Materials Science, Indian Institute of Technology Indore, Indore, Madhya Pradesh 453552, India
04.00 pm	RAMM 2013	Thermal and Flow Performance in a CLPHP with Al ₂ O ₃ /Copper Nanofluids: Application in Microelectronics and Power Generation	P.Venkataramana, P.Vijaya Kumar, B.Bala Krishna	Department of Mechanical Engineering, JNTU College of Engineering, Kakinada, Andhra Pradesh and 533003, India
04.20 pm	RAMM 2020	Influence of Squeeze Casting and Extrusion on Microstructure, Mechanical Properties and Corrosion Behaviour of AZ91 Magnesium Alloy	Ankush S. Marodkar, Hitesh Patil, Jitendra Chavhan, Hemant Borkar	Metallurgy Engineering and Materials Science, Indian Institute of Technology Indore, Indore, Madhya Pradesh 453552, India
04.40 pm	RAMM 5037	Experimental studies of process parameters on tool wear rate and surface roughness of Mg AZ91D using electric discharge machining	S.Sudharsan, B Varun, R Trishik, O Jeflin Obi, S Surjith, P Kishore Prabhu, G Janakiram	Department of Mechanical Engineering, Sri Ramakrishna Institute of Technology, Coimbatore, India-641010

Session: ME02 (ONLINE)

Date: 08.12.2022

Time: 11.30 am to 04.40 pm

Session Coordinator : Mr. D. KESAVAN, AP/Mech, VCET

Session Coordinator contact number : +91 97502-86727

Session Google meet link : <https://meet.google.com/nrm-scji-gvc>**Session Chair:**

1. Dr. R. NANDHAKUMAR, *Assistant Professor / Mech, Institute of Road and Transport Technology*

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
11.30 am	RAMM 2032	Fundamental frequencies of composite rectangular plates with different cut-outs	Sayan Biswas, Lokavarapu Bhaskara Rao	School of Mechanical Engineering, Vellore Institute of Technology, Chennai Campus, Vandalur-Kelambakkam Road, Chennai, Tamil Nadu
11.50 am	RAMM 2039	Mechanical characterization of copper-MWCNT epoxy matrix polymer composite	S. Ramu, N. Senthilkumar, Saravanan Rajendran	Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, India.
12.10 pm	RAMM 1069	Shear Thickening Fluids, Nano-polymer Materials and their Application Methods for Textile Substrates	Gurumurthy B. Ramaiah*, Dani Asfaw, Seblework Mekonnen, Tesfay Welamu, Eshetu Solomon	Ethiopian Technical University, Addis Ababa, Ethiopia
12.30 pm	RAMM 3024	Recycling of assorted aluminum scraps for sustainable production of aluminum alloys	Gottmyers Melwyn J, Bhagyanathan Chandragandhi, Sathiyaseelan G, Srinath P	Department of Mechanical Engineering, Sri Ramakrishna Engineering College, Coimbatore, Tamilnadu-641022, India.
02.00 pm	RAMM 2052	Design of flash vessel for caustic recovery plant	Darshil Prajapati, Reena Trivedi	Mechanical department, Nirma University, Ahmedabad-382481, India
02.20 pm	RAMM 2055	Use of Fatty Acid Chemical Composition for Predicting Higher Calorific Value of Biodiesel	Sumod Pawar*, Jitendra Hole, Mangesh Bankar, Subim Khan, Sagar Wankhade	Department of Mechanical Engineering, Rajarshi Shahu College of Engineering, Pune-411033, India
02.40 pm	RAMM 2056	Multi-Performance characteristics optimization in near-dry rotary EDM of AISiC by weighted principal component analysis	P. M. Gaigole, Rajiv B	Department of Industrial and Production Engineering, Vishwakarma Institute of Technology, Pune - 411037, India
03.00 pm	RAMM 2058	Steady solver for incompressible Navier-Stokes equation with automated adaptive mesh refinement using FEniCS	Varun Kumar R and K.V. Nagaraja	Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amrita School of Engineering Bangalore (ASEB), PIN Code:560035, India

Program Schedule of ICRAMM 2022

03.20 pm	RAMM 2085	Tribological considerations for failure restoration and maintenance of radial plunger pump against friction and abrasive wear behavior by microwave cladding of Ni-Graphene	Pragyan Jain, Arti Sharma, Navya Upadhyay, Saurabh Tewari, R. S. Rajput, Sunil Kumar, Tribhuvan Kishore Mishra	Baderia Global Institute of Engineering and Management, Jabalpur, Madhya Pradesh, India. 482003
03.40 pm	RAMM 2086	Effective evaluation of aerodynamic characteristics using subparametric finite element transformation for unmanned air vehicles at low Reynolds number	Chandan K., Supriya Devi, K. V. Nagaraja	Department of Mathematics, Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, INDIA.
04.00 pm	RAMM 3005	Tool Wear and Surface Roughness Evaluation of Mill Insert Tools in High-Speed machining of Ti-6Al-4V	Sanchit Kumar khare, Gurpreet Singh phull	School of Mechanical Engineering, Lovely Professional University, Jalandhar-144411, Punjab, India
04.20 pm	RAMM 3008	Evaluating the Surface Characteristics of Stellite -6 Super Alloy During End Milling Using Titanium Nitride Coated Binary Inserts	Saurabh P Shah*, Anand Y Joshi, Kamlesh Chauhan	Mechanical Engineering Department, Gujarat Technological University, Ahmedabad, Gujarat, India
04.40 pm	RAMM 2043	Optimised machine learning classification model to detect void formations in friction stir welding	Arindam Baruah and Hemant Borkar	Department of Metallurgy Engineering and Materials Science, Indian Institute of Technology, Khandwa Road, Simrol, Indore-453552, India

Session: ME03 (ONLINE)

Date: 08.12.2022

Time: 11.30 am to 04.40 pm

Session Coordinator : Mr. S. ARUNKUMAR, AP/Mech, VCET

Session Coordinator contact number : +91 90037-05759

Session Google meet link : <https://meet.google.com/ecq-bpjc-eyz>**Session Chair:**

1. Dr. C. V. ADAKE, *Professor / Mech,*
KLE Dr. M.S. Sheshgiri College of Engineering & Technology, Belagavi

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
11.30 am	RAMM 3042	Optimization of Electrodeposition Parameters to Maximize the Microhardness of Ni-SiC Nanocomposite Coatings using RSM	P. Natarajan, M.Periyasamy, R.Jamuna, K. Sakunthala, M. Mohanraj	Department of Mechanical Engineering, Government College of Engineering, Salem-636 011, Tamilnadu, India.
11.50 am	RAMM 3047	Selection of Spot Welding Electrode Material by AHP, TOPSIS and SAW	Bhanudas Bachchhav, Swarali Bharne, Atharva Choudhari, Siddharth Pattanshetti	Department of Mechanical Engineering, All India Shri Shivaji Memorial Society's, College of Engineering, 1, Kennedy Road, Pune, Maharashtra, 411001, India
12.10 pm	RAMM 3049	Experimental Study on the Quality of Drilled Holes in Sabai Grass Reinforced Composites	Shambhu Kumar, Ratnakar Das, S.K.Parida	Department of Mechanical and Manufacturing Engineering, National Institute of Advanced Manufacturing Technology, Hatia, Ranchi, Jharkhand, India
12.30 pm	RAMM 3069	Topology Optimization of Brake Pad	Ganesh Dongre, Ravi Raut Nikita Atre, Ketan Nilgund, Shreya Ohol, Abhishek Otari, Shivani Padamwar, Nishikant Sirpurkar	Vishwakarma Institute of Technology, Pune, Maharashtra, India
02.00 pm	RAMM 3082	Mechanical characterization of low temperature thermomechanical treated AA6061-silica sand composites	Ramakrishna Vikas Sadanand, Sathyashankara Sharma*, P. R. Prabhu	Department of Mechanical and Industrial Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, Karnataka - 576104, India.
02.20 pm	RAMM 3083	Experimental Analysis and Prediction of Wear Properties of 6061-Aluminium Alloy Using Artificial Neural Networking Architecture Approach	Mr.A.Balthilak, Dr.S.Pathur Nisha, Mr.R.Allocious Britto Rajkumar, Dr.V.S.Thangarasud	Department of Aeronautical Engineering, Nehru Institute of Technology, Coimbatore – 641105, India

Program Schedule of ICRAMM 2022

02.40 pm	RAMM 3087	Sprouting in Seeds Aided by Nitrogen Sourced from Ammonia Fumes Leached from Aluminium Dross	Sylvester Avijit Gomes, V.R. Reghu, Parvati Ramaswamy	Department of Mechanical & Automobile Engineering, School of Engineering and Technology, CHRIST (Deemed to be University) Bangalore-560074, India.
03.00 pm	RAMM 3096	Investigations on multi cylinder four stroke diesel engine's crankshafts with different Materials	Ravi Kumar L, Ravinthiran A, Srivarshani P, Sharadha S, Saravanan V, Ajith kumar R	Department of Mechanical Engineering, Sri Sairam Engineering College, West Tambaram, Chennai-44, India.
03.20 pm	RAMM 3097	Study of Machining Characteristics of 45C8 Carbon Steel Alloy in CNC Turner	H. Ghosh, S. Mukhopadhyay, M. Saha, S. Banerjee and B. Panja*	Department of Mechanical Engineering, Narula Institute of Technology, Kolkata-700109, India.
03.40 pm	RAMM 4013	Optimization of Multiple Surface Roughness Characteristics of Mild Steel Turned Product Using Weighted Principal Component and Taguchi Method	Umesh Khandey, Vedpal Arya	Department of Mechanical and Manufacturing Engineering, National Institute of Advanced Manufacturing Technology, Ranchi, Jharkhand-834003, India
04.00 pm	RAMM 4020	Investigation of Wear and Mechanical Properties of hybrid polymer composites	Ganesh R. Chavhan, Lalit N. Wankhade, Masnaji R. Nukulwar, Pawan V. Chilbule, Shital C. Jamunkar	Mechanical Engineering Department, Government College of Engineering, Chandrapur (M.S.), India.
04.20 pm	RAMM 4094	Design and Development of Pneumatic Sheet Metal Bending Mechanism	Shital Sobale, Nikita Atre, Ketan Nilgund, Shreya Ohol, Abhishek Otari, Shivani Padamwar, Nishikant Sirpurkar	Vishwakarma Institute of Technology, Pune, Maharashtra, India
04.40 pm	RAMM 4077	Modal analysis of Al-Si-C Alloy bush using ANSYS	Ramu.P, Rajesh.G, Sivalingam.S	SRM Valliammai Engineering College, Potheri, Kattankulathur, chennai -603203 India

Session: PH01 (ONLINE)

Date: 08.12.2022

Time: 11.30 am to 04.40 pm

Session Coordinator : Mr. V.MOHAN KUMAR, AP/Mech, VCET

Session Coordinator contact number : +91 95666-04166

Session Google meet link : <https://meet.google.com/ybr-ptaz-kxd>**Session Chair:**

1. Dr. H. SHANKAR, AP/Physics, *KPR Institute of Engineering & Technology, Coimbatore*

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
11.30 am	RAMM 1036	Monitoring and Sensing of Glucose Molecule By Micropillar Coated Electrochemical Biosensor via $\text{CuO}/[\text{Fe}(\text{CN})_6]^{3-}$ and its Applications	Purva Duhan, Deepak Kumar, Mukta Sharma, Deenan Santhiya and Vinod Singh*	Department of Applied Physics, Delhi Technological University, Delhi, India-110042
11.50 am	RAMM 1056	Influence of temperature and surface recombination velocity on the performance of c-Si solar cell	Roshi, Bhim Singh, Vivek Gupta	Department of Physics, Guru Jambheshwar University of Science and Technology, Hisar-125001 NDIA
12.10 pm	RAMM 1076	Boiling Heat Transfer Study of Micro-Diamond Coated Surface Using Underwater Explosion Shock Wave Method	Shuichi Torii, Yuta Nakamura, Shigeru Tanaka	Institute of Industrial Nanomaterials, Kumamoto University, Kumamoto, 860-8555, Japan
12.30 pm	RAMM 1088	Electrical Characteristics of Mg Doped GeO_2 NWs Based Device	Ankita Choudhury, Arka Dey, Aniruddha Mondal*	Department of Physics, National Institute of Technology Durgapur, 713209, India
02.00 pm	RAMM 2011	Influence of processing parameter on Structural, Morphological, Optical, and Dielectric Properties of LaPO_4 Ceramics	Kanchan Khanna, Akshay Kumar, Tiku Ram, Sunil K. Dwivedi and Sunil Kumar*	Department of Physics, Guru Nanak College, Batala, Punjab-143505
02.20 pm	RAMM 2012	Photocatalytic degradation of Methylene Blue dye by Green Synthesized CuO Nanoparticles	Gurdev Preet Singh, Jasmeet Kaur, Kanika Chandel, Shalni, Suvigaya Sharma, K.J. Singh	GURU NANAK DEV UNIVERSITY AMRITSAR-143005
02.40 pm	RAMM 2017	Magnetic and Magneto-Dielectric Properties of Nd^{3+} Modified PbTiO_3 and NiFe_2O_4 Based Multiferroic Composites	Akshay Kumar, Kanchan Khanna, Tiku Ram, Sunil K. Dwivedi and Sunil Kumar*	Department of Physics, Guru Nanak College, Batala, Punjab-143505

Program Schedule of ICRAMM 2022

03.00 pm	RAMM 2047	Perovskite Organic Tandem Solar Cell: A Design Towards 23.5% Efficiency	Ajay Kumar, Aditya Jain and Neha Gupta	Department of Electronics and Communication, Jaypee Institute of Information Technology, Noida, India.
03.20 pm	RAMM 2075	The Zinc Lysinate-Riboflavin Structure Colloid Particles are a kind of Colloid Particles	Ayat Mohammed Yahya, Safa Y. Taha, Russul M. Shehab, Zainab H. Omran, Mustafa A Jihad, Aqeel Ali Al-Hilali and Ali M. Ahmed	Al-Esraa University College, Baghdad, Iraq
03.40 pm	RAMM 2094	Study and Simulation of MEMS Electrostatic Actuators	Haritha N, Nithya G, Amruth S Pawar, K Naveen Kumar	Center for Nano materials and MEMS, Nitte Meenakshi Institute of Technology, Bangalore, India
04.00 pm	RAMM 3019	Synthesis, physical and optical properties of Boro-Tellurite Glasses Co-doped with Bismuth Oxide	Varsha Bhingarkar, Sukhdev Bairagi, Ghizal F. Ansari*	Physics Department, Madhyanchal Professional University, Bhopal-462044, India
04.20 pm	RAMM 3021	Structural, Dielectric and Conductive properties of Ag substituted $(La_{0.80}Sr_{0.20})_{1-x}Ag_xMnO_3$ ($x=0.15$ and 0.20) cathode material for SOFCs	Surinder Paul*, Manokamna, Vikas Duggal, Viveksheel Jaswal, Rajesh Kumar	School of Physical & Material Sciences, Central University of Himachal Pradesh, India

Session: ACA01 (ONLINE)

Date: 09.12.2022

Time: 10.30 am to 03.40 pm

Session Coordinator : Mr. K. RAMAKRISHNAN, AP/Mech, VCET

Session Coordinator contact number : +91 99655-71376

Session Google meet link : <https://meet.google.com/oac-scjk-cjh>**Session Chair:**

1. Dr. S. SHAMSHATH BEGUM, *Assistant Professor/Polymer Engineering,*
B.S.Abdur Rahman Crescent Institute of Science & Technology, Chennai

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
10.30 am	RAMM 6010	Study of Physical and Chemical Properties of Collagen from Waste of Genuine Leather Production	Ergashov Mansur Yarashovich, Avezov Hasan Tilloyevich, Khudoyberdiev Shuhrat Shamsiddinovich	Bukhara State University Organic and physical colloid department
10.50 am	RAMM 6015	Synthesis and Spectroscopic Study of Complex Compounds of Some 3d Metals with The Condensation Product of 1-Ferrocenylbutanedione-1,3 and Succinic Acid Dihydrozide	Sulaymanova Zilola Abduraxmonovna, Kodirova Zulfiya Qobilovna, Xudoynazarova Gulbahor Akiyevna	Bukhara state University
11.10 am	RAMM 6028	Molecular Structure, Homo-Lumo, Mep - Analysis of Triazine Compounds Using DFT (B3LYP) Calculations	Bakhtiyor Ganiev, Uktam Mardonov, Gulyayra Kholikova	Department of Organic and physcolloidial chemistry, Bukhara State University, Uzbekistan, 200117, Bukhara, st. M. Ikbol 11.
11.30 am	RAMM 6034	Intensification of Dying of Silk and Cotton-Silk Fabrics with Water-Soluble Dyes in the Presence of Chitosan	Khazratova Dilshoda Azamovna, Nurutdinova Feruza Mukhitdinovna, Razzoko Khasan Kalandarovich	Bukhara state University
11.50 am	RAMM 6036	Synthesis and Optical Properties of Some 3D Metal Complexes Based on β -Dicarbonyl Ferrocene Derivatives	Sulaymanova Z. A., Radjabova L. R., Sharifova N. A., Karomatov S.A.	Bukhara state University, Bukhara, 200100, Uzbekistan
12.10 pm	RAMM 6037	Multifunctional Debye Temperature Acoustical and Surface Tension Studies in combination of Ortho-xylene and Amyl acetate at Four temperatures T(=303.15,308.15,313.15 to 318.15)K	SK.Fakruddin Babavali, S.M.Ibrahim, M.Srilakshmi and P.Naresh	Department of Chemistry, V. R. Siddhartha Engineering College, Vijayawada(A.P), India.

Program Schedule of ICRAMM 2022

02.00 pm	RAMM 1028	A Green Realistic Inventory Model with Preservation Technology for Deteriorating Items under Carbon Emission	Naeem Ahmad, Isha Sangal, Kanchan Sharma, Mahesh Kumar Jaysawal, Santosh Kumar*, Khursheed Alam	The A.H. Siddiqi Centre for Advanced Research in Applied Mathematics and Physics, Sharda University, Greater Noida 201310, India
02.20 pm	RAMM 1029	A Fuzzy Inventory Model for Defective Items Under Learning Effect	Naeem Ahmad, Mahesh Kumar Jaysawal, Surya Kant Pal*, Santosh Kumar, Khursheed Alam	Department of Mathematics, School of Basic Sciences and Research Sharda University, Greater Noida-201310, UP, India
02.40 pm	RAMM 2065	Paper making raw materials assessed by Bipolar fuzzy environment	R. Preethi, S. Anita Shanthi	Department of Mathematics, Annamalai University, Annamalai Nagar 608002, Chidambaram, India
03.00 pm	RAMM 3044	Poly Ether Ether Ketone-Cobalt incorporated Zinc Oxide Nanomaterial: Synthesis, Characterization and Tribological Behaviour	Nitin Girdhar Shinde*, Rahul Dilip Sandhanshiv, Dr.Sachin Girdhar Shinde	R C Patel Institute of Technology, Shirpur, Maharashtra, India
03.20 pm	RAMM 4024	Induced by Heat Source on Unsteady MHD Free Convective Flow of Casson Fluid Past a Vertically Oscillating Plate through Porous Medium Utilizing Finite Difference Method	B. Shankar Goud*, Pudhari Srilath, Thadakamalla Srinivasulu, Yanala Dhamendar Reddy, Kanti Sandeep Kumar	Department of Mathematics, JNTUH University College of Engineering Hyderabad, Kukatpally, Hyderabad Telangana, 500085, India.

Session: CE03 (ONLINE)

Date: 09.12.2022

Time: 10.30 am to 04.00 pm

Session Coordinator : Mr. A. T. NAVIN PRASAD, AP/Mech, VCET

Session Coordinator contact number : +91 98981-99179

Session Google meet link : <https://meet.google.com/dzy-siwj-yiz>**Session Chair:**

1. Dr. P. R. KANNAN, Associate Professor - Mech & Automation, Mahendra Engineering College, Salem

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
10.30 am	RAMM 4072	Study of Patched Ternary Blended Concrete using Fiber Glass Wire Mesh	Bhagyashree Khartode, Manisha Shewale, Shraddha Asalkar, Nitin Shinde, Shobha Rani Nadupuru	Department of Civil Engineering, Dr. D Y Patil Institute of Technology, Pune, India
10.50 am	RAMM 4085	Development of Strain Hardening Cement Based Composite for Concrete Retrofitting Purposes	Pallati Sushma, M.Nanditha	Department of Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, India.
11.10 am	RAMM 5002	Comparative study on load carrying capacities of castellated beams provided with mild steel and CFRP stiffeners	P.D.Kumbhar, A.M.Jamadar	Department of Civil Engineering, Rajarambapu institute of Technology, Rajaramnagar, Dist.Sangli, MS, India,415414
11.30 am	RAMM 5011	A Study on Torsional Behaviour of Rectangular Reinforced Concrete Beams with U-shaped Encased Welded Wire Mesh	Vivek V. Mane, Nandkumar K. Patil	Civil Engineering Department, SGU University and Assistant professor, Bharati Vidyapeeth College of Engineering, Kolhapur, India
11.50 am	RAMM 5015	The Experimental Performance of Durability and Strength to Repair for Micro Cracks in a Self-Healing Bacterial Concrete	B. Dharmabiksham, Ch. Kavya, Dr. S. Kapilan	Department of Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Hyderabad, India.
12.10 pm	RAMM 5063	Enhancing the Strength of Expansive Clayey Soil using Lime as Soil Stabilizing Agent along with Sodium Silicate as Grouting Chemical	Dharini V, Balamaheswari M, Anto Nevis Presentia	Department of Civil Engineering, National Engineering College, Kovilpatti 628503, India
12.30 pm	RAMM 5073	Impact Resistance-Compressive Strength Relationship of Steel Fiber-Reinforced Concrete at Ambient and High Temperatures	Ahmmad A. Abbass	Building and Construction Materials Department, Southern Technical University-Shatrah Technical Institute, Shatrah 64007, Iraq

Program Schedule of ICRAMM 2022

02.00 pm	RAMM 5079	Waste to Wealth: Vegetable Market Waste to generate electricity, a design proposal suitable for any medium scale Vegetable Market in Indian cities	Sandhya Kiran J K, P. Abhishek, P. Manikanta, K. Sai Pavan, K. Chaitra, M. Sai Kiran	Head of Department, Department of Civil Engineering, St. Martin's Engineering College, Kompally, Secunderabad -500100, India.
02.20 pm	RAMM 6027	The Impact of castoff aggregate on the fresh and mechanical behaviour of high-range water reducer administered self-compacting concrete	Priyanka, Sudharsan N*, Praburanganathan S, Aruna G	School of Civil Engineering, REVA University, Bengaluru, India
02.40 pm	RAMM 6030	An Experimental Behaviour of RCC Rectangular Beams with U-Shaped Encased Welded Wire Mesh under Torsion Phenomena	Vivek V. Mane, Dr. Nandkumar K. Patil, Dr. Amey Katdare, Dr. Chetan Patil	Civil Engineering Department, SGU University and Assistant professor, Bharati Vidyapeeth College of Engineering, Kolhapur, India.
03.00 pm	RAMM 6032	Numerical Investigation on Steel Beam-Concrete Column Composite End- plate connection	Madhu Paudel , C Arunkumar and N Umamaheswari	Department of Civil Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai-603203, Tamil Nadu, India.
03.20 pm	RAMM 6033	Numerical Investigation on Strengthening of Brick Masonry Wall Using Mortar Joint Technique	Shristi Sah , N. Umamaheswari*	Department of Civil Engineering, SRM Institute of Science and Technology, Chennai, 603203, India
03.40 pm	RAMM 6043	Experimental Studies on Geopolymer Concrete	Amar R, Devanand R, Harsha H N, Sachin K C*	Department of Civil Engineering, Government Engineering College, Hassan, India

Session: EE01 (ONLINE)

Date: 09.12.2022

Time: 10.30 am to 04.15 pm

Session Coordinator : Mr. A. MANOJKUMAR, AP/Mech, VCET
 Session Coordinator contact number : +91 95006-77383
 Session Google meet link : <https://meet.google.com/rjx-wkzt-aca>

Session Chair:

1. Dr. SHIMPY RALHAN, *Professor - EEE, Shri Shankaracharya Technical Campus, Bhilai*

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
10.30 am	RAMM 1083	Split-Ring Resonator Loaded Pentagon Antenna for Super Wide Band Communications	Naineri Suguna, Revathi Senthil*	Dept. of Communication Engineering, School of Electronics Engineering (SENSE), Vellore Institute of Technology, Vellore, Tamil Nadu, India.
10.50 am	RAMM 1084	Apollonian Triangles Integrated on Tapered Fed Hexagon Antenna	Naineri Suguna, Revathi Senthil*	Dept. of Communication Engineering, School of Electronics Engineering (SENSE), Vellore Institute of Technology, Vellore, Tamil Nadu, India.
11.10 am	RAMM 2044	Effect of Temperature Variations on the Linearity parameters of Graded Channel Nanotube Field Effect Transistor	Ashima Rai*, D. Vaithyanathan, Balwinder Raj	Department of ECE, National Institute of Technology Delhi, India
11.30 am	RAMM 2048	Numerical Simulation of Transparent Gate Thin-Film Transistor (TG-TFT) with Varied Gate Materials for High-Performance Applications	Ajay Kumar*, Aditya Jain* and Neha Gupta	Department of Electronics and Communication, Jaypee Institute of Information Technology, Noida, India.
11.50 am	RAMM 2091	Modeling to study the braking efficiency of the electric vehicle	Nguyen Thanh Tung, Luong Van Van	Vinh Long University of Technology Education, 73, Nguyen Hue St, Vinh Long city, Vietnam
12.10 pm	RAMM 2099	Preliminary Analysis of the Cellulose-based Battery Separator	Asrin Awang Selan, Lip Huat Saw*, Hui San Thiam, Dongyang Sun, Weng Cheong Tan	Lee Kong Chian Faculty of Engineering and Science, UTAR, Kajang, 43000, Malaysia.
12.30 pm	RAMM 3009	Design And Simulation Of Dual-axis MEMS Based Capacitive Accelerometer	S. Ramya S, A. Sthuthi, K.Naveen Kumar	Department of Electronics and Communication Engg., Nitte Meenakshi Institute of Technology, Bangalore. Karnataka-560064

Program Schedule of ICRAMM 2022

02.00 pm	RAMM 3010	Preliminary Discharge Behavior Modelling of Aluminum-Air Battery with Polypropylene Separator	Weng Cheong Tan, Lip Huat Saw*, Asrin Awang Selan, Ming Chian Yew, Dongyang Sun, Yann Yee Koh, Wen Tong Chong, Wei-Hsin Chen	Lee Kong Chian Faculty of Engineering and Science, UTAR, Kajang, 43000, Malaysia.
02.20 pm	RAMM 6047	Monte Carlo Simulation Based Sensitivity Analysis of MR Damper using Risk Analysis	Sophia Immanuel, Daniel C, Joel Shelton J, Hemalatha G	Department of Civil Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India
02.40 pm	RAMM 3051	Sustainable solar still system coupled with renewable power for industrial wastewater recycling: A review	Abdeljalil Adam*, Nabil Saffaj, Rachid Mamouni	Laboratory of Biotechnology, Materials, and Environment, Faculty of Sciences, University IBN ZOHR, Agadir 80000, Morocco
03.00 pm	RAMM 3080	Effect of Operating Conditions and Air Filters Maintenance on the Performance and Efficiency of Gas Turbine Power Plant	Sally A. Auda, Obed M. Ali	Renewable Energy Research Unit, Northern Technical University, 36001 Kirkuk, Iraq
03.20 pm	RAMM 5013	A Wideband Flexible Electro-Textiles Material Linear-To-Circular Polarizing Metasurface for S-Band Cubesats	Hidayath Mirza, Nishat Sultana	Department of Electrical Engineering, College of Engineering, Jazan University, P. O. Box 706, Jazan, 45142, Kingdom of Saudi Arabia
03.40 pm	RAMM 5030	A Broadband Electro-Textile-Based Flexible Linear-to-Circular GNSS Polarizer Receiver	Hidayath Mirza, Mehmood Mirza, Sangram M. Shinde, Rais Ahmad Sheikh, Bilquis Banu	Department of Electrical Engineering, College of Engineering, Jazan University, Jazan University, P. O. Box 706, Jazan 45142, Kingdom of Saudi Arabia
04.00 pm	RAMM 5036	Design and Operational Management of Sustainable Multi- Networks Green Energy System for Study Area at India	Vikas Khare, Pradyumn Chaturvedi, Krishnkant, Manoj Mishra	STME, NMIMS, Indore, India

Session: ME04 (ONLINE)

Date: 09.12.2022

Time: 10.30 am to 04.00 pm

Session Coordinator : Dr. S. VELUMANI, Professor/Mech, VCET
 Session Coordinator contact number : +91 99424-02205
 Session Google meet link : <https://meet.google.com/def-eukq-yiw>

Session Chair:

1. Dr. P. MURUGESAN, *Professor & Director/ Mech, K.S.R Institute of Engineering & Technology*

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
10.30 am	RAMM 4039	Numerical Prediction of Slurry Flows Through 90° Bend Pipelines	Mukund Kumar * and Gaurav Kumar	Department of Mechanical Engineering, National Institute of Technology Jamshedpur, Jharkhand-831014, India
10.50 am	RAMM 4042	Experimental Studies on Carbon Nanotube Strain Sensors	Moreshwar Khodke, Umesh Chavan, Satishchandra Joshi, Sunil Shinde	Vishwakarma Institute of Technology, Pune 411037, India
11.10 am	RAMM 4043	Fabrication of Hybrid Aluminum Matrix Composites and Prediction of Physical Characteristics Using Artificial Network	Mahaviradhan, N., Sivaganesan, S.	Department of Mechanical Engineering, VISTAS, Chennai 600117, Tamil Nadu, India
11.30 am	RAMM 4057	Green Manufacturing- Optimization of Novel Biodegradable Cutting Fluid for Machining	Rahul Katna, M. Suhaib, Narayan Agrawal, Veerpal Bhati, Praveen Kumar, Mumtaz Ahmad Khan	Faculty of Engineering and Technology, Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi, India
11.50 am	RAMM 4058	Fabrication of Cost-effective Three-axis Portable mini-CNC Milling Machine	Bikram Bihari Barik, Arindam Mahanty, Soumyadeep Datta Majumder, Arindam Roy Goswami	Department of Mechanical Engineering, Techno International NewTown, formerly Known as Techno India College of Technology, Action Area I, NewTown, West Bengal-700156, India
12.10 pm	RAMM 1098	Multi-response optimization of Magnetic Abrasive Finishing process parameters on AISI H13 hot die steel using Grey Relational Analysis	Krunal P. Modi, Sanket N. Bhavsar	Gujarat Technological University, Ahmedabad-382424, Gujarat, India
12.30 pm	RAMM 4080	Investigation of Shear Properties of Axial Flow Fan Blade material with Partial Woven Jute Reinforcements	Venkata Sushma Chinta*, P Ravinder Reddy, Koorapati Eshwar Prasad	Chaitanya Bharathi Institute of Technology (A), Hyderabad, 500075, India.

Program Schedule of ICRAMM 2022

02.00 pm	RAMM 4081	An Experimental Investigation on the Effect of Lithium and Alkali Resistant Glass Fiber on Aluminum AA5383 Fabricated by the Stir-Casting Process	M. Ramesh, Tamil Selvan M, P. Rama Chandran, P. Hariprasad, Arunkumar A, Ram Kumar C, R. Prem Kumar	Department of Mechanical Engineering, KIT-Kalaignar karunanidhi Institute of Technology, Coimbatore 641402, Tamil Nadu, India
02.20 pm	RAMM 4083	Influence of Powdered Chick Eggshell (PECS) on Mechanical and Wear Properties of Kenaf Fiber (KF) Reinforced Composites	Babu B, Muruganandhan P, Girimurugan R*, Sakthi S, Nanthakumar S, Vignesh S	Department of Mechanical Engineering, Nandha College of Technology, Perundurai 638 052, Tamil Nadu, India
02.40 pm	RAMM 4084	Generative Design of Main Landing Gear for a Remote-Controlled Aircraft	Aditya Gupta, Vedant Soni, Dhaval Shah*, Absar Lakdawala	Mechanical Engineering Department, Institute of Technology, Nirma University, S.G. Highway, Ahmedabad-382481, India
03.00 pm	RAMM 4086	Influence of process parameters on delamination of GFRP with abrasive water jet machining	Anil Kumar Dahiya, Basanta Kumar Bhuyan, Shailendra Kumar	ME, FET-MRIIRS, Faridabad, India and Department of MAE, MAIT, Rohini, Delhi, India
03.20 pm	RAMM 4091	Metallographical Characterization of Al-SiCP Metal Matrix Composites Processed through Microwave Sintering Technique	Honnaiah C, Srinath M S, Shashank Lingappa M	Mechanical Engineering Department, Malnad College of Engineering, Hassan-573201, India.
03.40 pm	RAMM 4092	Measurement of Flank wear in Turning of Monel K500 Material Based on Novel Image Processing Technique	Dilli Ganesh V, R.M. Bommi, Sivaprakasam Palani	Saveetha School of Engineering, SIMATS, Chennai, India.
04.00 pm	RAMM 4036	Analysis of Wire EDM Machining Parameter Optimization for Hardness and Dimensional Deviation	Sambhaji Sagare, Shyam Pawar, Nilesh Ghuge, Chirag Kolambe	Mechanical Engg. Department, Sarvepalli Radhakrishanan University, NH-12, Hoshangabad Road, Bhopal, India

Session: ME05 (ONLINE)

Date: 09.12.2022

Time: 10.30 am to 04.15 pm

Session Coordinator : Mr. M. GOPI, AP/Mech, VCET

Session Coordinator contact number : +91 99431-51117

Session Google meet link : <https://meet.google.com/sor-ojmi-axy>**Session Chair:**1. Dr. R. MOHAN, *Professor/ Mech, Sona college of Technology, Salem*

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
10.30 am	RAMM 4097	Performance Enhancing of Solar Photo Voltaic Panel using Hybrid Cooling System	P.Somasundaram, T.Sakthivel, J.Sarankaruneshkumar, S.Kartheeban Raj	Department of Automobile Engineering, Perundurai - 638 060, India.
10.50 am	RAMM 5019	Design of CRMC Non-Adiabatic Supersonic Nozzle with Frictional Effect	Shambhu Pandit, Parveen Pachauri, Virendra Kumar, Surendra Kumar Yadav	Department of Mechanical Engineering, Noida Institute of Engineering & Technology, Greater Noida, Uttar Pradesh, Pin-201306, India
11.10 am	RAMM 5021	Dynamic Analysis of Boron Nitride Nanotube Using Different Boundary Conditions Under Influence of Vacancy Defect	Harsh Sharma*, Sharad Shrivastava, Jitendra Singh Rathore, Sandesh Trivedi	Department of Mechanical Engineering, Birla Institute of Technology & Science, Pilani, Rajasthan, 333031, India
11.30 am	RAMM 5025	Effect of ALCLAD layer on weld characteristics during dissimilar micro-friction stir welding (μ FSW) of aluminum alloy sheets	Mayank Verma and Probir Saha*	Advanced Manufacturing Lab., Department of Mechanical Engineering, Indian Institute of Technology Patna, Bihta, Patna 801106, Bihar, India
11.50 am	RAMM 5027	Characterization of Nano-Mixed PCM for Solar Cooker Application	C.V. Papade and A.B. Kanase-Patil	Department of Mechanical Engineering, N. K. Orchid College of Engineering and Technology Solapur, Dr. Babasaheb Ambedkar Technological University, Raigad, Maharashtra-402103, India
12.10 pm	RAMM 5031	Feasibility study of AZ31B deposition made by novel Powder Bed Friction Stir process with optimal process parameters and tool features selection	Prabhakar Kr. Singh, Akash Mukhopadhyay, Mayank Verma, Probir Saha*	Department of Mechanical Engineering, Indian Institute of Technology Patna, Bihar 801106, India

Program Schedule of ICRAMM 2022

12.30 pm	RAMM 5032	Prediction of Forces in Incremental Sheet Forming using Finite Element Method	D.H.Nimbalkar, V.M.Nandedkar	TPCT's College of Engineering, Osmanabad-413501, India
02.00 pm	RAMM 5034	Modelling and Fabrication of Synthetic-Natural Fibre Sandwich Structure for Fish Feeder Hull	Syed Mudassir, Mithun Vinayaka Kulkarni, Sivamani S.	Engineering Department, University of Technology and Applied Sciences, Salalah, Oman
02.20 pm	RAMM 5054	Efficiency enhancement of die design for G2R-1A relay terminal using progressive tool	Lydia Anggraini, Josep Ginting, Trivia Nola, Kazunori Takagi	Study Program of Mechanical Engineering, President University, Jababeka Education Park, Cikarang, Bekasi 17550, Indonesia
02.40 pm	RAMM 5059	Reliability assessment of pipeline steel under corrosion defect	O. Ghelloudj, D. Zelmati, C.E. Ramoul, A. Gharbi, A. Ayad, I.D. Aoun, A. Saadi	Research Center in Industrial Technologies (CRTI), P.O. Box 64, Cheraga 16014 Algiers, Algeria
03.00 pm	RAMM 5061	Development of nickel alloy based hardfacing procedure for Fast Breeder Test Reactor control rod sheath using conventional Gas Tungsten Arc Welding process and metal cored alloy grade ERC Ni Cr – B	Venkataraman K*, Varunanand V, Tharun S, Thanush S, Surya Prakash	Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai, 600044, India
03.20 pm	RAMM 5069	Neural Network (NN) Based Modelling and Multi-objective Swarm Algorithm (MSA) Optimization of CNC Milling Operation	Azzam S.Hameed, Bijan.Mallick*, Krishnendu Mondal, SK Hikmat	Faculty of ME Department, Global Institute of Management and Technology, Krishnanagar, MAKAUT, W.B. India
03.40 pm	RAMM 5080	Study on Mechanical Properties of Palm - Bamboo – Glass Fiber Composites	M.Muthukannan, P.Shankar Kannan, M.Selwin, T.kathiravan	SSM Institute of Engineering and Technology, Dindigul, Tamil Nadu, India
04.00 pm	RAMM 5081	Development of Novel Environmental Proficient Hybrid Composites based on Marble Dust and Poultry's Eggshell	Ganesh Babu Loganathan, Pon.Maheskumar, Jayanthi N, Sureshkumar R, Sakthi S, Girimurugan R*	Department of Mechanical Engineering, Nandha College of Technology, Perundurai 638 052, Tamil Nadu, India.

Session: ME06 (ONLINE)

Date: 09.12.2022

Time: 10.30 am to 04.00 pm

Session Coordinator : Mr. T.C.R. DINESH, AP/Mech, VCET

Session Coordinator contact number : +91 95668-59797

Session Google meet link : <https://meet.google.com/ksq-fnwo-jxg>**Session Chair:**

1. Dr. C. SAMSON JEROLD SAMUEL, Associate Professor/Mech, Sri Krishna College of Engineering and Technology, Coimbatore

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
10.30 am	RAMM 5086	Multi-response optimization of the performance and emission characteristics of a diesel engine fueled with palm kernel oil methyl ester using TOPSIS-RSM hybrid approach	Bijoy Kumar Deb, Prasun Chakraborti	Department of Mechanical Engineering, National Institute of Technology, Agartala, PIN-799046, India
10.50 am	RAMM 5095	Microstructural characterization and mechanical properties of an electron beam welded Low Carbon NiCrMo Low Alloy Steel	Vijaya L. Manugula, V.Lavanya, Y.Pardhu	Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Hyderabad 500 075
11.10 am	RAMM 6002	Influence of Thermomechanical Treatment on the Structure, Hardness and Corrosion Behavior of Super Duplex Stainless Steel	Abdelkader BACHIRI*, Riad BADJI, Mohamed Zine TOUHAMI, Amel GHARBI, Oualid Ghelloudja, Saleh REMILI	Research Center in Industrial Technologies (CRTI), P.O. Box 64, Cheraga 16014 Algiers, Algeria
11.30 am	RAMM 6006	Numerical Fatigue analysis on fractured femur bone fixed with prosthetic plate	V.Balasubramani*, D.Gokul, R.K Gokul	Department of Mechanical Engineering, Thiagarajar college of engineering, Madurai, 625015, India.
11.50 am	RAMM 6007	An approach to evaluate wear of customized manufacturing fixtures through the analysis of 3D scan data	Mankirat Singh Khandpur, Paolo Minetola, Vito Stiuso, Serena Rifuggiato, Luca Fontana, Erika Lannunziata, Alberto Giubilini, Luca Iuliano	Politecnico di Torino, Department of Management and Production Engineering (DIGEP), Corso Duca degli Abruzzi 24, 10129 Torino, Italy
12.10 pm	RAMM 6012	An Investigation on the influence of Torque and R-Ratio on the fatigue life of double-lap bolted joint using FEM	Lokesh Kumar PJ, Vasanth Roy J, Sevvell P	Department of Mechanical Engineering, R.M.K. Engineering College (Autonomous), Kavaraipeitai – 601206, India

Program Schedule of ICRAMM 2022

12.30 pm	RAMM 6013	Nutrition Retention Processing of Grapefruit Through Dehydration using Agro-Domestic Novel Fruit Drier	Ravikumar. M, Srinath. M. K, Ganesha Prasad. M. S	Mechanical Engineering Department, New Horizon College of Engineering, Bangalore, India
02.00 pm	RAMM 6016	Effect of Copper Nano-Cutting Fluids in End Milling of Al 6061 and Its Influence on Work Piece Morphology	P. Haseena Bee, P.H.V. SeshatAlpa Sai, S. Devaraj, M L R Chaitanya Lahari, K.V. Sharma, K.S. Narayanaswamy	School of Mechanical Engineering, REVA University, Bangalore, Karnataka, India
02.20 pm	RAMM 6022	Investigation of Flexural, Inter Delamination and Impact behaviour of Fiber Metal Laminate Composite	D Kumaran, J Melvin antony, G Lokeshwaran, P Santhana srinivasan, Vigneshwar SRM, B Vijaya Ramnath, R Senthil Kumar	Department of Mechanical Engineering, Sri Sairam Engineering College, West Tambaram, Chennai-44
02.40 pm	RAMM 6026	Investigation of Wear Behaviour of 3wt% SIC Fiber Metal Laminate Composite	G Lokeshwaran, J Melvin antony, D Kumaran, P Santhana srinivasan, Haresh M, B Vijaya Ramnath, R Senthil Kumar	Department of Mechanical Engineering, Sri Sairam Engineering College, West Tambaram, Chennai-44
03.00 pm	RAMM 6031	Effect of kenaf fiber loading on the tensile properties of 3D printing PLA filament	H.Y. Lau, M.S. Hussin, S. Hamat and M.S. Abdul.Manan	Faculty of Mechanical Engineering and Technology, Universiti Malaysia Perlis, 02600 Ulu Pauh, Perlis Malaysia
03.20 pm	RAMM 4061	Impact of the Correlation Between Random Variables on the Reliability Assessment of the Corroded Pipelines	Zelmati Djamel, Ghelloudj Oualid, Hazourli Hamza, Richi Wissem, Azzi Afef	Research Center in Industrial Technologies (CRTI), P.O. Box 64, Cheraga, Algiers, 16014, Algeria
03.40 pm	RAMM 6041	Selection of Best Deposition Material and Optimum Process Parameter for the Plasma Transferred Arc Hard Facing Process	Keyur P. Hirpara, Janak B. Valaki, Mrunalkumar D. Chaudhari	Gujarat Technological University, Ahmedabad, Gujarat, India-380015

Session: PH02 (ONLINE)

Date: 09.12.2022

Time: 10.30 am to 04.00 pm

Session Coordinator : Dr. S. DEVI, AP/Physics, VCET

Session Coordinator contact number : +91 90037-45669

Session Google meet link : <https://meet.google.com/utt-xryq-nsf>**Session Chair:**1. Dr. K. R. VALLUVAN, *Professor/ COE, Velalar college of Engineering & Technology, Erode*

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
10.30 pm	RAMM 4090	Modeling and Simulation of Ga ₂ O ₃ Thin Film Solar Blind UV Photodetector	Rishi Kumar D, Yuvakishore K, Vignesh P, Sasikala M, Sudhakar K Bharatan	Sri Venkateswara College of Engineering, Pennalur Village, Sriperumbudur Tk. - 602117, Kancheepuram Dist. Tamil Nadu, India
10.50 am	RAMM 3067	Dark Matter Subhalo Disturbance in the Tidal Field: Towards a New Simulations Accuracy	Ali M. Ahmed, Zainab H. Omran, Safa Y. Taha, Ayat Mohammed Yahya, Mustafa A Jihad, Russul M. Shehab and Aqeel Ali Al-Hilali	Mamak.kusunlar mah. Osmanli CD. B7 D6, Ankara, Turkey
11.10 am	RAMM 3078	Adenine adsorption on Hf-doped graphene: a density functional theory investigation	Jawaher Qasem and Baliram Lone*	Nanomaterials Research Laboratory, Department of Physics, Vinayakrao Patil Mahavidyalaya, Vaijapur-423701 Dist. Aurangabad, Maharashtra, India
11.30 am	RAMM 3079	Flexible conducting Membrane by PVDF/Fe ₃ O ₄ /PMMA	Sribidhya Mohanty, Varij Panwar, Priya Khanduri	Polymer Sensors and Actuator Lab, Department of Electronics and Communication Graphic Era (Deemed to be University), Bell Road, Clement Town, Dehradun-248001, Uttarakhand, India
11.50 am	RAMM 3081	Synthesis of highly superhydrophili Cu ₂ O film using dip coating method	Pratiksha S Mandlik, Abhijit S Landge, Mansi A Ingole, Shivaji V Bhosale	Fergusson college Pune, Pune 411004, Maharashtra, India
12.10 pm	RAMM 3086	Some finite temperature and ground state properties of high-T _c superconductivity within the planar t-J-U model	Chumki Tarafdar, Nanda Kumar Ghosh	Department of Physics, University of Kalyani, Kalyani-741235, West Bengal, India

Program Schedule of ICRAMM 2022

12.30 pm	RAMM 3089	Thermal dependence of soft mode frequency, Dielectric constant, and Tangent loss in Lead Hydrogen Phosphate (LHP) crystal	Nitin Bahuguna, Kuldeep kumar, Trilok Chandra Upadhyay	Department of Physics, H.N.B. Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand 246174, India
02.00 pm	RAMM 4008	Enhancement of magnetoresistance with the variation of particle size in $\text{La}_{0.68-x}\text{Y}_x\text{Ca}_{0.32}\text{MnO}_3$, $x=0.0,0.4, 0.5,0.6$	Jai Narayan Sahu, Dinesh Uthra, M.Z. Khan	Department of Pure & Applied Physics, G.G.V. Central University, Bilaspur - Chhattisgarh-495009, INDIA
02.20 pm	RAMM 4066	Growth and characterization of D-Alanine DL-Mandelic acid single crystals for antibacterial activity and optical limiting applications	K. Balakrishnan, S. SakthyPriya, P. Surendran, A. Lakshmanan, P. Rameshkumar*, P. Geetha, KarthikKannan, G. Vinitha	Department of Physics, Presidency College (Autonomous), Chepauk, Triplicane, Chennai-600005, Tamilnadu, India
02.40 pm	RAMM 4068	Performance Efficiency Effectiveness of Incidence Angle of Concave Trough Solar Concentrator	Yasser Y. Khudair, Alaa B. Hasan, Haider S.Mahdi	Department of physics, University of Baghdad, College of Education for Pure Sciences/Ibn Al-Haitham, Baghdad, Iraq
03.00 pm	RAMM 4076	On Some Ground State Properties of Extended t-J-U Model Induced by Next-Nearest-Neighbor (NNN) Pair Hopping Interaction	Piyali Ghosh, Papiya Pal and Nanda Kumar Ghosh*	Department of Physics, University of Kalyani, Kalyani-741235, West Bengal, India
03.20 pm	RAMM 4082	Comparison study of WO_3 thin film and Nanorods for smart window application	Ashok Reddy G V, K Naveen Kumar, Hitha D Shetty, Devaraja C, Shiva prasad H B, KM Girish, A R Venugopal, Deepak K, Shirajahammad M Hunagund	Department of Physics, Nitte Meenakshi Institute of Technology, Yelahanka, Bengaluru, Karnataka, India-560064
03.40 pm	RAMM 3091	Synthesis of Ultra-thin Graphene Oxide/ Reduced Graphene Oxide Nanocomposites and Examine Their Properties	Arti Sharma, Pragyan Jain, Rakesh Bajpai, Prabhat Patel, Ashish Tiwari	Baderia Global Institute of Engineering and Managment Jabalpur, M.P. 482002, India

Session: PH03 (ONLINE)

Date: 09.12.2022

Time: 10.30 am to 03.40 pm

Session Coordinator : Dr. S. KARVENDHAN, AP/Mech, VCET

Session Coordinator contact number : +91 99945-51008

Session Google meet link : <https://meet.google.com/xfk-wzih-mec>**Session Chair:**1. Dr. M. RAMYA, *Diligentec Solutions, Coimbatore*

Time	Paper ID	Paper Title	Authors	Affiliation of first Author
10.30 am	RAMM 4096	Optical, Thermal, Electrochemical, Properties of Nano Graphene Oxide / Nickel Oxide Nano composite suitable for Super capacitor Applications	M. Sappani Muthu, P.Ajith, J.Agnes, M. S. Selvakumar, M. Presheth, D.Prem Anand	Materials Research Centre, Dept. of Physics, St. Xavier's College (Autonomous), Palayamkottai- 627002, Tamil Nadu, India
10.50 am	RAMM 5007	Theoretical investigation of the thermodynamic activities of Zn-In-Sn lead-free solder alloys and the concerned binary alloys	Sanjay Kumar Sah, Ishwar Koirala, Indu Shekhar Jha,	Birendra Multiple Campus, Tribhuvan University, Bharatpur, Nepal
11.10 am	RAMM 5029	A comparative study of structural properties of γ -MnO ₂ using hydrothermal and green synthesis method using fresh leaf extract of <i>Mangifera Indica</i> linn	Asha R. Pai, Bindhuja K, Athul N. S., Manu R. Prasad	Department of Physics, Amrita School of Arts and Sciences, Amrita Vishwa Vidyapeetham, Amritapuri-690525, Kerala, India
11.30 am	RAMM 5047	Investigation of Micro-Structural and Transport Properties of Cd _x Cu _{1-x} S Thin Films Prepared by SPT	Vandana Rathore, Ramakant Bhardwaj	School of Engineering and Technology, Jagran Lakecity University, Bhopal-462044, (M.P), India
11.50 am	RAMM 5051	Synthesis of ZnO Nanoparticles from Zinc Acetate Dihydrate - An environmental friendly technique	M. Abisha Meji, D. Usha, M. Harihara Sankar, B. M. Ashwin	Department of Physics and Research Centre, Women's Christian College, Nagercoil, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli, Tamil Nadu, India
12.10 pm	RAMM 5077	Electrodeposition and characterization of polypyrrole films on stainless steel	Priti N. Jadhav, Dr. K.V. Sukhatankar*	Department of Physics, Gogate Jogalekar College Ratnagiri, 415612, Maharashtra, India
12.30 pm	RAMM 5098	Acoustical Material -Debye Temperature and Surface Tension Studies in Multifunctional combination Para-anisidine and Amyl acetate at Four temperatures T(=303.15,308.15,313.15 to 318.15)K	G.Sridevi and SK.Fakruddin Babavali	Department of Physics, V. R. Siddhartha Engineering College, Vijayawada (A.P), India.

Program Schedule of ICRAMM 2022

02.00 pm	RAMM 6011	Modelling and Simulation of a Si/ZnO-based Heterojunction Photodetector	Anitha.S, M Ranjithkumar, Sudhakar K Bharatan	Sri Venkateswara College of Engineering, Pennalur Village, Sriperumbudur Tk. - 602 117, Kancheepuram Dist. Tamil Nadu, India
02.20 pm	RAMM 6020	Study of Electrical Property of Synthesised Polyaniline Magnesium Ferrite Nanocomposite	Priyanka Kolhar and Basavaraja Sannakki	Department of Physics, Gulbarga University Kalaburgi-585106, Karnataka, India.
02.40 pm	RAMM 6035	Structural, ferroelectric, ferromagnetic and magnetodielectric properties of lead free $K_{0.5}Na_{0.5}NbO_3-Ni_{0.5}Zn_{0.5}Fe_2O_4$ based composites	Kulwinder Kaur and Jaspal Singh*	Department of Physics, Punjabi University, Patiala-147002, Punjab, India.
03.00 pm	RAMM 6052	Design and analysis of a cross core octagonal shaped highly birefringent photonic crystal fiber	Priyadharshini C*, Devika R, Selvendran S, Sivanantha Raja A	Sethu Institute of Technology, Virudhunagar, Tamil Nadu, India
03.20 pm	RAMM 2045	Single-walled carbon nanotubes patterned as aromatic element rings through chemical refluxation method	Swasti Saxena*, Ankit Kumar Srivastava, SK Riyazudiin, Siddhartha Samanta, Sabyasachi Khatua, Aakash Singh, Sonika	Department of Physics, Indian Institute of Technology, Indore 453552, India