

Second International Conference on  
**International Conference on Advanced Technologies in Chemical,  
 Construction and Mechanical Sciences (ICATCHCOME 2023)**

09 - 10, February 2023 | Coimbatore, India | <http://www.icatchcome.com>

### Program Schedule

Date	Time	Event
09.02.2023	10.00 am	Inaugural Function_ICATCHCOME 2023 Google meet link: <a href="https://meet.google.com/oju-rtxh-jhf">meet.google.com/oju-rtxh-jhf</a>
09.02.2023	10.30 am	<b>Keynote 1: Dr. Wahidul K Biswas</b> Asso. Professor, School of Civil and Mechanical Engineering Faculty of Science and Engineering, Curtin Perth Campus, Bentley WA 6102, Australia Google meet link: <a href="https://meet.google.com/oju-rtxh-jhf/">meet.google.com/oju-rtxh-jhf/</a> <b>Keynote 2: MOHAMAD NUR KHAIRUL HAFIZI ROHANI</b> Faculty of Electrical Engineering Technology, Universiti Malaysia Perlis.
09.02.2023	11.10 am to 05.00 pm	Session: ICATCHCOME(PHY01) - OFFLINE
		Session: ICATCHCOME(PHY02) - OFFLINE
		Session : ACH01(ONLINE)
		Session : CHE01(ONLINE)
		Session : CE01(ONLINE)
		Session : ME01(ONLINE)
		Session : ME02(ONLINE)
		Session : APH01(ONLINE)
		Session : AMP01(ONLINE)
10.02.2023	10.00 am	<b>Keynote 3: Dr. Umesh B Deshannavar</b> Professor & Dean - Chemical Engineering KLE Dr. MSS College of Engineering & Technology Belagavi, Karnataka, India Google meet link: <a href="https://meet.google.com/oju-rtxh-jhf">meet.google.com/oju-rtxh-jhf</a>
10.02.2023	10.30 am to 04.00 pm	Session : ACH02(ONLINE)
		Session : CE02(ONLINE)
		Session : CE03(ONLINE)
		Session : ME03(ONLINE)
		Session : ME04(ONLINE)
		Session : APH02(ONLINE)
10.02.2023	04.15 pm	Valedictory Session Google meet link: <a href="https://meet.google.com/oju-rtxh-jhf">meet.google.com/oju-rtxh-jhf</a>

**Session Tracks - Notation**

*APH – Applied Physics*

*ME - Mechanical Engineering*

*EC - Electronics & Communication Engineering*

*AMP – Applied Mathematics & Physics*

*ACH – Applied Chemistry*

*CE – Civil Engineering*

*CHE – Chemical Engineering*

**Note:**

1. Start time given above indicates Indian Standard Time (IST).
2. Presentation will be conducted using Google Meet.
3. Mode of presentation should be powerpoint presentation(ppt or pptx)
4. There is no specific template for the presentation. Authors can use their own templates.
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) ICATCHCOME Whatsapp group during presentation date(s).

**Session: ICATCHCOME(PHY01) - OFFLINE**

Date: 09.02.2023

Time: 11.10 am to 05.00 pm

**Session Chair(s)** : Dr. P. Thangaraj, Director, CFRD, KPRIET  
 Dr. R. Maheswar, Asso. Head, CFRD, KPRIET  
 Dr. Daniel Thangadurai, Asso. Head, CFRD, KPRIET  
 Dr. K. Mohana Sundaram, Professor & Head, EEE, KPRIET  
 Dr. S. Ananth, Professor & Head, Physics, KPRIET

**Session In-charge** : Ms. M. Shalini & Mr. G. Murali Manoj

Time	Paper ID	Paper Title	Author(s)
11.10 am	CCM 1062	Effect of Milling Time on the Mechanical Properties of Zirconia Toughened Alumina Composites	Vinith. B, Dhanush Dharshan S. A, Aravind. S, Ganesh Kumar S, Bipin Kumar Singh
11.30 am	CCM 1091	Study on structural and photoluminescence property of SrCeO <sub>3</sub> and SrCe <sub>0.98</sub> Sm <sub>0.02</sub> O <sub>3</sub> perovskites	Shilpa C K, Nissamudeen K M, Jasira S V, Veena V P
11.50 am	CCM 1097	Spectroscopic investigation of samarium incorporated barium cerate nano perovskites	Jasira S V, Shilpa C K, Veena V P, Nissamudeen K
12.10 pm	CCM 2056	Experimental Investigation of Emission Reduction in 4S Diesel Engine Fueled by Coconut Oil Methyl Ester Using Oxidation Inhibitors	Jobit K Siju, Anu Nair P, Mobin Antony, Goutham Krishna, Kevin John Varghese
12.30 pm	CCM 2060	Experimental Investigation of Ethanol Diesel Dual Fuel DI Diesel Engine	Kevin John Varghese, Anu Nair P, Mobin Antony, Goutham Krishna, Jobit K Siju
02.00 pm	CCM 2063	Experimental Analysis of SS316 Using Brass Electrode in Electric Discharge Machining	Ganesh Dongre, Nitin Patkia, Ravi Raut, Apurva Kulkarni, Aditya Murdande, Ishwar Pagar, Yash Badve, Vishwajit Khade, Namrata Ingle
02.20 pm	CCM 2079	Performance and Analysis of Sputtered CBN Inserts in Machining	K.Velraja, V Srinivasan

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02.40 pm	CCM 2090	Experimental determination of fracture forming line for AA1100 aluminum sheet in single point incremental forming process	Ashish Gohil, Bharat Modi
03.00 pm	CCM 2091	Experimental investigation of eco-friendly building blocks utilizing coconut shells	K. Vignesh Kumar, C. Daniel, V. Amudhan, S. Kapilan, E. Arunraj
03.20 pm	CCM 3047	Performance and Analysis of Sputtered Silicon Nitride Cutting Inserts in CNC Machining	K.Velraja, V Srinivasan
03.40 pm	CCM 3085	Performance Prediction and Parametric Analysis of a Simple Compressor Plate Valve by Formulation of Mathematical Model	Meru Jain, Ajay Saraf, Akshay S.Bhinge, Utsav Verma
04.00 pm	CCM 3086	Mechanical Investigation of Agave Plant Fiber Composite by Experimental and Numerical Methods	K Aravinth, V Kondusamy, T Ramakrishnan, VD Tamarasan, K Kavi Rasu
04.20 pm	CCM 3097	LC-MS detection of amino acids and neurotransmitters by using reactive 2,4,5-triphenylpyrylium salt as an efficient derivatizing Material	P. Sivakumar, K.B. Nagashanmugam, S. Priyatharshni, R. Rajan, R. Lavanya, S.Maragathamani, N. Prabhu, S. Ponnusamy and G. Pradeesh
04.40 pm	CCM 3045	Iron Making in Induction Furnace for Casting Steel Billets	K.B.Nagashanmugam, P. Sivakumar, S.Priyatharshni, R.Rajan, S.Maragathamani, R.Lavanya, N.Prabhu, S.Ponnusamy and G.Pradeesh

**Session: ICATCHCOME(PHY02) - OFFLINE**

Date: 09.02.2023

Time: 11.10 am to 05.00 pm

Session Chairs : Dr. E. Ranjith Kumar, Physics, KPRIET  
 Dr.R. Subramaniyan@ Raja, Physics,KPRIET  
 Dr. K. Prabakaran, Physics, KPRIET  
 Mr. Pushpagiri, Physics, KPRIET  
 Mrs. V. Gayathri, Physics, KPRIET

Session In-charge : Ms. M. Shalini & Mr. G. Murali Manoj

Time	Paper ID	Paper Title	Author(s)
11.10 am	CCM 4021	Parameter optimization in DP-Tig welding of SMO 254 using TOPSIS	P. John Raj Kumar, A. Baskaran, T. Deepan Bharathi Kannan
11.30 am	CCM 5023	Green Synthesis of Copper Oxide Nanoparticles Using Carica Papaya and their Antimicrobial Activity	T. Gayathri, S. Sangavi, M. Yudhika
11.50 am	CCM 5044	Green synthesis and characterization of Zinc and Copper oxides nanocomposite using Phyllanthus Emblica extracts	Nitu Kumari, Sudharsan V, Muthu Kutty T, Neethu Jayan, Laxmi Deepak Bhatlu M
12.10 pm	CCM 6011	Transfer learning-based real-time damage classification on high-rise steel structures	Yuvaraj Natrajan, Prasanna Blessy, Gitanjali Wadhwa Kathiresan Kandasamy, Sri Preethaa K R
12.30 pm	CCM 6026	Numerical study on thermo-solutal combined convection in a lid-driven chamber with heat/cold sources on sidewalls	S. Sivasankaran, K. Janagi, Ahmad Ramzi Kassar
02.00 pm	CCM 6050	Development of Super-Hydrophobic Surface using TiO <sub>2</sub> to Reduce Adverse Effects of Environmental Pollutants on Buildings	Malathy Ramalingam, K.Dhivya, S.R.R.Senthil Kumar, R.Raghavi, R.Dharamaraj
02.20 pm	CCM 6060	Review on Numerical Investigation of 3D Laminated Composites with Carbon Fibre Tow Modelling	Arpit Anil Panwar, S Neelakrishnan
02.40 pm	CCM 6072	Electrochemical metallization in PDMS-graphite composite-based neuromorphic memristor	P. Praveen, K.V. Vijoy, K. J. Saji

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03.00 pm	CCM 6083	An Investigation of Effect of Ultraviolet (UV) rays on Mechanical Properties of Epoxy Laminates	Naveen R, Kumar M, Ramesh M, Abinaya R, Prasath M S
03.20 pm	CCM 6087	Compressive Strength Endorsement with Regression Props of Inflection and Tolerance for Material Substituted Self Compacting Concrete with Fiber Reinforcement	N. Balasubramaniam, V. Kavinkumar, K. Boopathy
03.40 pm	CCM 6094	Isolation and cultivation of bacteria in various media and study of the effect of cultivated bacteria on microbial corrosion of Carbon Steel in industrial water versus 3.5 wt.% NaCl	Lakshmi A.N., Angira Bhuyan, Lata Pasupulety
04.00 pm	CCM 6099	Study on The Performance of Polyether Sulfone (PES) and Calcium Metasilicate (CaSiO <sub>3</sub> ) membrane for desalination	Umapiya R, Dharani L, Rohan J, Pavithra M, Karthika S
04.20 pm	CCM 7024	Punching shear strength of hybrid steel – polypropylene fiber concrete slabs under static and repeated loading	Waleed Khalid Hadi and Shahzinan Jawad Zazou
04.40 pm	CCM 7027	Analysis of the upshot of heat treatment on properties of Magnesium Hybrid Composites	V Veeranaath, Uddhav Daga , Yuvraj Kumar
05.00 pm	CCM 7028	Analysis and Optimization of Machinability of Al <sub>2</sub> O <sub>3</sub> and Fly Ash Reinforced Aluminum Hybrid Composites using Carbide Inserts	V Veeranaath, Mobashir, Ravi Shankar

**Session: ACH01 - ONLINE**

Date: 09.02.2023

Time: 11.10 am to 05.00 pm

Session Chairs : Prof. S. Balasubramanian, Head, Dept. of Chemical, KPRIET  
 Prof. K. Thenmozhi, AsP, VIT-Vellore  
 Prof. R. Singaravel, Annamalai University  
 Dr. D. Selvakumar, AsP, ECE, KPRIET.

Session In-charge : Ms. GOMATHI R

Session Link : <http://meet.google.com/hyf-ambc-brz>

Session in-charge Contact Number : 9940966629

Time	Paper ID	Paper Title	Author(s)
11.10 am	CCM 1028	Nonlinear Analysis of Multiparameter Adsorption Isotherm Models for Removal of Copper from its Aqueous Solution using Orange Zest Biochar Adsorbent	Selvaraju Sivamani, Naveen Prasad B S., Jayakaran P., Saikat Banerjee
11.30 am	CCM 1031	Synthesis, spectral, XRD crystal structure, Hirshfeld surface, molecular docking and In Silico ADMET studies of symmetrical azine: 1,2-bis(4 (methylthio) benzylidene)hydrazine	S.Ramkumar and R.Rajalakshmi
11.50 am	CCM 1051	Utilization and evaluation of catalytic activity of Hydroxyapatite on the synthesis of some Corosolic acid amide	V. Boobalarasu, I. Muthuivel, G. Thirunarayanan, A. Kumar, S. Kulanthaivel
12.10 pm	CCM 3019	Synthesis and In-silico analysis of a $\beta$ -carboline alkaloid derivative against HIV-1 as a Non-Nucleoside Reverse Transcriptase inhibitor (NNRTI)	Nanuram Muwel, Vikrant Jainb, Aadil Khurshed
12.30 pm	CCM 3056	Parameter Processes and Their Impact on <i>Tinospora cordifolia</i> Stem Extracts for Antibacterial and Antioxidant Materials	Ahmad Royani Muhammad Hanafi, Muhammad Eka Prastyad, Chandrabhan Verma, and Azwar Mana,
02.00 pm	CCM 5099	GC-MS Method for the quantification of potential genotoxic thionyl chloride impurity in Tenelegliptin drug substance	M. Manivannan, P. Ilayaraja, P. Parthiban
02.20 pm	CCM 4011	Formulation and optimization of novel vesicular elastic carrier for transdermal delivery of Lercanidipine for the treatment of hypertension: Statistical design and Preclinical assessment	Himabindu Peddapalli, G. V Radha
02.40 pm	CCM 4012	Investigations of the Silicone Anisotropic Magnetically Active Composites Properties	S.I.Kirichenko, H.H.Valiev, A.N.Vlasov, Y.N.Karnet, A.A.Kornilova, Y.V.Korovkin, A.Ya.Minaev, G.V.Stepanov

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03.00 pm	CCM 4034	Green synthesis of 4-Amino Indane Derived Schiff Bases catalysed by ionic liquids and their Computational studies	Susmitha Kasula and Sumalatha Dandu
03.20 pm	CCM 4068	Formulation and Evaluation of Olmesartan Medoxomil Nanosuspension	Sapana S. Ahirrao, Deepak S. Bhambere, Eknath D. Ahire, Neelam L. Dashputre, Smita P. Kakad, Umesh D. Laddha
03.40 pm	CCM 4092	pH Sensitive In-Situ Gel for Ophthalmic Delivery of Ofloxacin and Dexamethasone Sodium Phosphate: Formulation, Development, and Evaluation	Sapana S. Ahirrao, Deepak S. Bhambere, Bharat Agiwale, Sarika Algat, Deepali Zoman, Varsha Chaudhari
04.00 pm	CCM 5016	Evaluation of Concrete's strength components with unfinished Fine Aggregates found Copper Slag	M.Velumani, S.Gowtham, MP. Dhananjayan, G.Tamil Eniyan
04.20 pm	CCM 5017	Isolation and Identification of Flavonoids compounds and Formulation of tecoma undulata (Sm.) seem. Herbal ointment	Rahul R. Sable, Divya G. Thite, Pavan B. Udavant, Eknath D. Ahire, Shubham J. Khairnar
04.40 pm	CCM 5020	Bioanalytical method development for quantification of trifluridine with its metabolites and tipiracil in spiked human plasma by solid- phase extraction (SPE) and HPLC with PDA detection	Rakesh Uttamrao Shelke, Dinesh Dattatray Rishipathak



**Session: CHE01 - ONLINE**

Date: 09.02.2023

Time: 11.10 am to 05.00 pm

Session Chairs : Prof. M.S. Karthikeyan, Head, Dept. of Chemistry, KPRIET  
 Dr. M Saravanabhavan, AP, Chemistry, KPRIET  
 Dr. Jayabal S, AP, Chemistry, KPRIET  
 Dr. N Prakash, AP, CFRD, KPRIET  
 Dr. Umapriya, AP, Chemical Engineering, KPRIET.

Session In-charge : Mrs. YOGESWARI P

Session Link : [meet.google.com/yhs-egkg-nmq](https://meet.google.com/yhs-egkg-nmq)

Session in-charge Contact Number : 7010857191

Time	Paper ID	Paper Title	Author(s)
11.10 am	CCM 1025	Biodegradation of Low Density Polyethylene (LDPE) By Paenibacillus Sp. and Serratia Sp. isolated from marine soil sample	Rishi Mallisetty, Sridevi Veluru, Husam Talib Hamzah, Manal N. K. Hamem, M. Tukarambai, Venkata Rao Poiba, R. Srikanth, Husam Salah Mahdi
11.30 am	CCM 1065	Poly(Acrylic Acid)-Graft-Biopolymer towards Ammonium Adsorption: A Comparative Study on Chitosan and Cellulose	Hoang-Phuc Nguyen, Tri Nguyen, Hong-Phuong Phan, Trung Dang-Bao
11.50 am	CCM 2017	Hydrothermal Synthesis and Characterization of cobalt vanadate nanoparticles for supercapacitor applications	Lakshmana Naik R, Balan Narsaiah T, P Justin
12.10 pm	CCM 3016	Optimization of Lactic Acid Production from Different Substrates using Rhizopus oryzae	Hemlata Karne, Srigan Moharir
12.30 pm	CCM 4023	Application of statistical and signal-processing tools in estimating the optimum product sampling interval and processing time of Refined, Bleached and Deodorized Palm Oil	Wai Hoong Khu, Nor Adhiah Rashid, Azmer Shamsuddin, Zaki Yamani Zakaria, Norazana Ibrahim, Mohd Kamaruddin Abd Hamid
02.00 pm	CCM 5021	Fabrication and Characterization of Regenerated Calcium Carbonate from egg shell used as a bio filler in Ethylene Propylene Dyne Monomer Elastomer	Isha Meshram, Tanushree Bhattacharjee, Suchismita Sahoo
02.20 pm	CCM 5054	Fabrication and Characterization of Regenerated Calcium Carbonate from egg shell used as a bio filler in Ethylene Propylene Dyne Monomer Elastomer	Isha Meshram, Tanushree Bhattacharjee, Suchismita Sahoo
02.40 pm	CCM 5057	Development of Biodegradable plastic from Banana Peel (Musa Sapientum)	Nageswara Rao Lakkimsetty, Amna AL Harrasi, Varghese M Joy, Karunya S, Noura Ali Moosa Al Balushi, Shabib Sulaiman Ali Al Rashdi, Kavitha G

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03.00 pm	CCM 5084	Formation of Fe <sub>3</sub> O <sub>4</sub> /C composite during pyrolysis of FeCl <sub>3</sub> -loaded pineapple ( <i>Ananas comosus</i> ) leaves	Hung Minh Nguyen, Linh Thi Nguyen, Hung Hoa Lam, Tuyet-Mai Tran-Thuy, Long Quang Nguyen, Dung Van Nguyen
03.20 pm	CCM 5094	Investigation of Experimental Parameters and It's Optimization on Iron Plate Electrodes for The Removal of Phosphates by Electrocoagulation Process using Box-Behnken Design	Vykuntam Supriya, Mosala Sohan Joshua, Ram Kiran B, Nitilaksha Guduru, Meena Vangalapati
03.40 pm	CCM 6014	Application of a membrane photobioreactor combined with microalgae for shrimp culture wastewater treatment	Nguyen Bao Danh, Le Thi Thanh Van, Doan Thi Thu Hang, Le Thai Hoang, Luong Quang Tuong, Pham Thi Thuy Vi, Tran Thi Van Trinh and Thanh Tran
04.00 pm	CCM 6056	Influence of Chemically Synthesized TiO <sub>2</sub> Nanoparticles for Photocatalytic Degradation of Herbicide Atrazine	Bezawada Surendra, Nitilaksha Guduru, Mosala Sohan Joshua, Ram Kiran B, Meena Vangalapati
04.20 pm	CCM 6089	Development of Bio lubricant from Castor Oil via Chemical softening: An Ease Towards Sustainable Substitute	Amruta Mokashi, Nishant Chavhan, Sharda Chandak, Bhushan Chaware, Prasad Bongarde, Sanket Bodhe
04.40 pm	CCM 7015	Study of Environmental Friendly Drilling Fluid Additives to Enhance the properties of Water Based Muds	Nihal Ali, Shri Ram Manda, Tanmay Sharma, Mohammad Adnan Khatri, Rose Havilah Pulla, Ankit Thakur

**Session: CE01 - ONLINE**

Date: 09.02.2023

Time: 11.10 am to 04.40 pm

Session Chairs : Prof. G. Anusha, Head, Department of Civil Eng., KPRIET  
 Dr. S Kapilan, Akshaya College of Engineering & Technology  
 Mr. S Yuvaraj, Civil, KPRIET  
 Ms. Dhivya, Civil, KPRIET.

Session In-charge : Ms.MONISHA R

Session Link : [meet.google.com/ptg-phus-fio](https://meet.google.com/ptg-phus-fio)

Session in-charge Contact Number : 7667282424

Time	Paper ID	Paper Title	Author(s)
11.10 am	CCM 1044	Finite Element-based Buckling Analysis of Bio-inspired Laminated Composite Plates	Rajesh Kumar, Aman Garg
11.30 am	CCM 2001	Thermal modified peat additive for cement systems	Maria Dmitrieva, Anastasia Puzatova, Vladimir Leitsin, Alina Kogai, Sofia Sokolnikova, Veniamin Kogai
11.50 am	CCM 2015	Nonlinear Analysis of Multi-storied Steel Framed Structure under Fire loads	R Sridhar, Guruprasad H C
12.10 pm	CCM 2032	Thermal Buckling of Steel Tube Using Finite Element Method	R.Balan, Vadivuchezhian Kaliveeran
12.30 pm	CCM 2041	An investigation into the durability of concrete using red mud as a substitute in cement	Vaibhav Shirodkar, Rakesh Patel, Manendra Verma
02.00 pm	CCM 2051	An Experimental Investigation on Self-Healing Concrete Using "Bacillus Subtilis"	P.V.Premalatha, M.Geethanjali, S.Sundararaman and C.S.Murali
02.20 pm	CCM 2052	Soil Strength Improvement by Reinforcing Soil with Geotextiles	S. Muthu Lakshmi, S. Vidhya Lakshmi
02.40 pm	CCM 2083	Effect of Fine Aggregate/Coarse Aggregate Ratio on the Fresh and Hardened Properties of Self Compacting Concrete	Ahmed M. Ahmed, Shady Nabil, Kalaf A. Abd Alwahed, Tarek A. Elsayed
03.00 pm	CCM 2098	Corrosion Characteristics and Performance of Calcined and Natural Zeolite Concretes	K. Narasimhulu, H. Prasad Raju, K. Asha Latha, Shaik Mahammad
03.20 pm	CCM 3015	Structural Behavior of Retrofitted RC Beam-Column Joint Using FRP Wrapping Technique	V.Mohanalakshmi, Mrs. B.Sudha Priya, M.Vigneshwaran
03.40 pm	CCM 3032	Improvement of the brick to increase the tangential bond strength of the masonry	Oleg Kabantsev, David Cajamarca-Zuniga

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04.00 pm	CCM 3050	An Experimental Investigation on Concrete Blocks using Ferrock as a Green Binding Material	Nitin Shinde, R Gobinath, R. Siva Chidambaram, Manisha Shewale
04.20 pm	CCM 3069	Seismic analysis of multi storey RC building with and without dampers	Hafeeza. Syed, J S R Prasad
04.40 pm	CCM 5008	Comparison of Mechanical Properties of Concrete Incorporated with Multiwalled Carbon Nanotube and Partial Replacement of Cement with Fly ash	B.Ashwini
05.00 pm	CCM 5092	Effect of water-to-binder (W/B) ratio and various zones of river sand on properties of Geopolymer Concrete	Swapnil D Kurhade, Subhash V Patankar

**Session: ME01 - ONLINE**

Date: 09.02.2023

Time: 11.10 am to 05.00 pm

Session Chairs : Prof. S. Ramesh Babu, Head, Dept. of Mechanical Eng.  
 Dr. M. Kumar, AsP, Mech, KPRIET  
 Dr. R. SenthilKumar, AP, CFRD, KPRIET  
 Dr. S. Gokul Kumar, AP, Mech, KPRIET.

Session In-charge : Ms. ANURSREE G

Session Link : <https://meet.google.com/oyh-xspz-jev>

Session in-charge Contact Number : 9544914459

Time	Paper ID	Paper Title	Author(s)
11.10 am	CCM 1010	Prediction of Responses for Simarouba Biodiesel based CRDI Engine using General Regression Neural Network	Nithyananda B S, G V Naveen Prakash, V N Manjunath Aradhya, S A Mohan Krishna, Vinay K B, Naveen Ankegowda, K S Ravia, Khalid Imran
11.30 am	CCM 1015	Multifluid Computational Fluid Dynamics Simulation for Sawdust Gasification inside an Industrial scale Fluidized Bed Gasifier	Vasujeet Singh, Pruthiviraj Nemapuri, Vivek Vitankar, Harish Chandra Das
11.50 am	CCM 1023	Fabrication of Biocomposite with Glass and Kenaf Fibres and Study of its Mechanical Properties	Ansari Faiyaz Ahmed, S. Sivaganesan
12.10 pm	CCM 1034	Influence of Ytria Stabilized Zirconia Coating on Inconel 625 & Hastelloy X with Sodium Sulphate Molten Salt	Kamatchi Hariharan M, Anderson A, Ravi Kumar K, Sengolerayan A
12.30 pm	CCM 1043	Corrosion Behaviour of Composite ( $Cr_2O_3 + 10\%TiC$ ) Coated Al alloy plates	Srinath. M. K, Shivaprakash S, Kamal Tej V, Allan Jonas A R, Sheela Lipi Panda, C Rohith
02.00 pm	CCM 1045	Surface Hardness and Microstructural studies of Ceramic Composite ( $Cr_2O_3 + TiC$ ) Coated Al alloy plates	Srinath. M. K, Rajesh A, D S Hemanth, Pratham S, Sathishwaran P, Suhas S
02.20 pm	CCM 1048	Comparative Analysis of Two and Four Blades Quadcopter Propellers based on Finite Element Method	Faraz Ahmad, Pushpendra Kumar, Pravin P. Patil, Ritvik Dobriyal, Shwetank Avikal
02.40 pm	CCM 1057	Experimental and Numerical Characterization of EPS Using Elastoplastic Response in ABAQUS	Yasser M. Mater, Aya M. El Shahat, Sherif S. Abdel Salam

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03.00 pm	CCM 1066	Energy Consumption Comparison at Various Insulation Scenarios: Mid-Rise Residential Buildings, Kabul City	Mohammad Azim Rasuli, Shuichi Torii
03.20 pm	CCM 1070	Experimental Studies of Formability in Single Point Incremental Forming of Cu-Al Bimetallic Sheets	Ankitkumar C. Pambhar, Janak B. Valaki
03.40 pm	CCM 2036	Effect of biogas flow rate on the combustion, emission and performance characteristics of dual fuel engine fuelled with ceiba pentandra biodiesel	P.S. Gaddigoudar, Y.H. Basavarajappa, N.R. Banapurmath, P.A. Harari
04.00 pm	CCM 2049	Effect of different hole shapes on the Stress Intensity Factor of finite plate with Edge Crack	Amith Anoop Kumar, Arunkumar S, Arutselvan C K and Jenuel John
04.20 pm	CCM 2068	Design and Analysis of Nature-Inspired Design for Ceiling Fan Inspired by Sycamore Seeds to Ensure a More Optimal Air Flow	Gururaj Fattepur, N Vijayakumar, Satish G J, Madhusudhana H K, Aakash Chatt, Siddhi S Rane
04.40 pm	CCM 6062	Optimally stacked hydrothermally stable composite laminate with extension-bend coupling	Nishant Kumar Shakya, Srikant Sekhar Padhee

**Session: ME02 - ONLINE**

Date: 09.02.2023

Time: 11.10 am to 05.00 pm

Session Chairs : Prof. K. Ravikumar, Mech, KPRIET  
 Prof. S. Nagaraja, Akshaya College  
 Dr. S. Sathish, Mech, KPRIET  
 Dr. L. Prabhu, Mech, KPRIET.

Session In-charge : Mr. PAVALAMUTHU M

Session Link : <https://meet.google.com/gfu-hrym-jek>

Session in-charge Contact Number : 9500376955

Time	Paper ID	Paper Title	Author(s)
11.10 am	CCM 2077	Experimental Investigation of HCCI Engine using Biofuels	Rohith Kumar Aa, Soorya Pandiyan Pa, Arumugam Sa, Raghu Pa
11.30 am	CCM 2092	Unsteady incompressible flow over a backward-facing step using FEniCS	Varun Kumar R, K.V. Nagaraja, Chandan K
11.50 am	CCM 3033	Study on Microstructure and Mechanical Characteristics of Al7075 Reinforced Composites Using Squeeze Casting Techniques	Ravindran S, Mohana Priya M S, Navin J S, Dinesh C and Narasimhan V
12.10 pm	CCM 3080	Finite Element Optimization of Pratt Trusses Using Trial and Error	Yahya Abdelhamid, Heba Farahat, Mohamed N. Othman, Yasser M. Mater, Ahmed M. Ahmed
12.30 pm	CCM 6096	Ensemble Machine Learning-Based Approach for Predicting Concrete Compressive Strength	Mouthami Kuppusamy, Yuvaraj Natrajan, Sri Preethaa K R, B. Karthikeyan, Charuni Sampathkumar
12.50 pm	CCM 7029	Characterization of Prosopis Juliflora Stem Activated Carbon for Methylene Blue Dye Adsorption	N.Vasiraja, R.Saravana Sathiya Prabhakar, A.Joshua
02.00 pm	CCM 3084	Bending Analysis of a Soft Pneumatic Actuator using Analytical and Numerical Methods	Narendra Gariya, Pushpendra Kumar, Mohit Makkar

02.20 pm	CCM 3089	Utilization of ANOVA Analysis in Identifying the Effects of Various Parameters on the Corrosion Behaviour of 7021 Al Alloys in Simulated RED SEA Conditions	Mohammed Raffic N, Abdulaziz Mohammed Khondoker, Abdulrahman Mohammed Ali Kaabi, Abdulaziz Ali Hamad Majrashi, Ibrahim Yhaya Mohammed Qusadi, Firas Ibrahim Mohamed Moawad, Haitham Hadidi, Mohammed Tharwan, Rajasekaran Saminathan
02.40 pm	CCM 3098	Comparative analysis between Graphene and Carbon Nanotube reinforced epoxy composite	Narendra Gariya and Amir Shaikh
03.00 pm	CCM 3099	Energy harvesting using PZT4 based beam type structural element	Narendra Gariya and Amir Shaikh
03.20 pm	CCM 4002	Cutting Force and Surface Roughness Measurement in turning of Monel K 500 Using GRA Method	Dilli Ganesh V, R.M. Bommi
03.40 pm	CCM 4008	Evaluation of wing performance for NACA 4415 using subparametric finite element transforms	Chandan K, K. V. Nagaraja, Varun Kumar R.
04.00 pm	CCM 4016	Design and Analysis of Horizontal Crystallizer for Agro-Chemical Industries	Akash Mirashi, Nikhil Jadhav, Prithvi Shreyakar, Suhan Nayak, S. V. Gorabal, Prasanna Mangaonkar
04.20 pm	CCM 4054	Optimization of Drilling Parameters in VMC Drilling on Magnesium AZ91D Alloy under Dry Condition with Taguchi Design	Jaisu V John, Krishnan V K, Jayaraman R, Girmurugan R
04.40 pm	CCM 6085	Study of Tribological characteristics of Hybrid Aluminium Matrix Composite using Design of Experiment	A.Saravanakumar, R.Jeyakumar, S.Boovendrarvarman.S P.Arivalagan, M.Sundrapandian



**Session: PH01 - ONLINE**

Date: 09.02.2023

Time: 11.10 am to 04.20 pm

Session Chairs : Prof. S. Ananth Stephen, Head, Physics  
 Dr. S. Suresh, AsP, Saint Joseph Engineering College, Chennai  
 Dr. E. Ranjith Kumar, ASP, Physics, KPRIET  
 Dr. K. Navamani, AP, Physics, KPRIET  
 Dr. K. Prbakaran, AP, Physics, KPRIET.

Session In-charge : Ms. JASMIN J

Session Link : [meet.google.com/fpa-mgom-ewo](https://meet.google.com/fpa-mgom-ewo)

Session in-charge Contact Number : 9789108830

Time	Paper ID	Paper Title	Author(s)
11.10 am	CCM 1026	Sol-gel auto-combustion synthesis and investigation of $\text{Ni}_{0.5}\text{Co}_{0.5}\text{Fe}_2\text{O}_4/\text{TiO}_2$ nanocomposites	Israa A. Ali, Tahseen H Mubarak, Ali. M. Mohammad
11.30 am	CCM 2026	Temperature dependence of Cochran's Ferroelectric mode Frequency, Dielectric constant and Tangent loss in classic ferroelectric TGS crystal	Nitin Bahugun, Trilok Chandra Upadhyay
11.50 am	CCM 2033	X-ray Crystallographic Comparison of Pyrazole Subsidiaries	Naresh Sharma, Ravinder Kour, Vivek K. Gupta
12.10 pm	CCM 2048	Synthesis and Structural Characterization of Nanocomposites $\text{ZnCo}_2\text{O}_4/\text{ZnO}$ Prepared by Co-precipitation Method	Pinki Rani, Sunil Rohilla and and Ajay Singh Verma
12.30 pm	CCM 2071	Interfacial Electronic properties of hybrid interfaces	Ashish, Vernika, Abhishek Kumar, Manvi Khajuria
02.00 pm	CCM 2082	Thermodynamics of compound forming CdHg liquid alloys at 600 K	Anjani Bhartiya, Rajendra Prasad Chaudhary, Nitu Kumari, Jagdhar Mandal, Indu Shekhar Jha
02.20 pm	CCM 3009	Temperature dependence of the bulk and surface properties of GaZn liquid alloys	Rajendra Prasad Chaudhary, Nitu Kumari, Jagdhar Mandal, Indu Shekhar Jha
02.40 pm	CCM 3048	Synthesis and Structural Characterization of Nanocomposites $\text{ZnO}/\text{CdO}$ Prepared by Sol-Gel Method	Rahul Patwa, Sunil Rohilla and Jyoti
03.00 pm	CCM 3051	Fluorescence Study of $\text{Ho}_{3+}/\text{Yb}_{3+}$ Ions Codoped Bismuth-Boro-Tellurite Glasses	Varsha Bhingarkar, Jitendra K. Mishra, Z. K. Ansari, Ghizal F. Ansari

Program Schedule of ICATCHCOME 2023

03.20 pm	CCM 3068	Rietveld refinement and structural characterization of $Mn_{0.5}Zn_{0.5}La_{0.09}Fe_{1.91}O_4$ nanocomposite	Jyoti, Sunil Rohilla, Nikita, Rahul Patwa
03.40 pm	CCM 3074	Transition life time of a confined exciton in a ZnO/ZnMgO quantum dot	N. Karthikeyan, P.Thiruramanathan, R. Srinivasan, K. Jeyapappa
04.00 pm	CCM 3075	Photodegradation behaviour of sol-gel synthesized $Bi_4Ti_3O_{12}$ for water pollution disinfection	P.Thiruramanathan, S.Manjula, N.Karthikeyan, R.Srinivasan, V.Sivakumar
04.20 pm	CCM 4062	Antibacterial studies and characterization of newly synthesized ZnO/ZnS/CuS ternary nanocomposite	Hana Tadesse, G.Kanthimathi, Raji Fayisa, Ponnusamy Thillai Arasu, Segni Asafa
04.40 pm	CCM 6095	Improved Design and Development of an Automated Jet Nebulizer Spray Pyrolysis System for Ag/Zn: CuO/Si Structured Diode Application	Jagadeesan V, R. Sakthivel, Shanmuga Priya S

**Session: AMP01 - ONLINE**

Date: 09.02.2023

Time: 11.30 am to 05.00 pm

Session Chairs : Prof. K. Karthikeyan, Head, Dept. of Mathematics, KPRIET  
 Prof.. R. Maheswar, Ass. Head, CFRD, KPRIET  
 Ms. S. Bhuvaneshwari, AP, Physics, KPRIET  
 Dr. K.M. Prabhu, Vidya Mandir Arts& Science  
 Dr. M. Subramanian, Maths, KPRIET

Session In-charge : Mr. Pitchaiah

Session Link : <https://meet.google.com/nyv-othg-wts>

Session in-charge Contact Number : 9025839108

Time	Paper ID	Paper Title	Author(s)
11.10 am	CCM 2089	Temperature Sensor Failure Detection and Diagnosis based on ARIMA Model	Pramod Kanjalkar, Jayanand Gawande, Jyoti Kanjalkar, Krushna More, Varun Manwatkar, Sanskruti Shimple, Amit Mohite
11.30 am	CCM 2096	Silk based adsorbents for remediation of toxic heavy metal ions from wastewater	Shruti Gupta, Balasubramanian Kandasubramanian
11.50 am	CCM 3010	Estimating the Efficiency of Building Stones in Complex Fuzzy Environment	S. Anita Shanathi and T. Umamakeswari
12.10 pm	CCM 3071	6 bands microwave metamaterial absorber for S, C, X, and Ku band applications	A.Elakkiya, Anand Mohanan, Aran Thomas, R.Syed Rayaan Ahmedh
12.30 pm	CCM 3049	Design and implementation of a three-phase power quality analyzer for live data tracking using a Field Programmable Gate Array	Balasubbareddy Mallalaa, Kondapalli Venkata Sri Ramb, P. Venkata Prasad, Kowstubha Palled
02.00 pm	CCM 3059	Investigation of Structural and Magnetic effect of Ca <sub>2+</sub> Doped Ferrous Ferric Oxide Nanoparticles via sol-gel auto combustion Synthesis	S. D. Raut, S. G. Dahotre, L. N.Singh, V. S. Shinde, S.N.Jadhav
02.20 pm	CCM 3060	Study of tensile and hardness properties of Aluminium 7075 metal matrix composites reinforced with Titanium Carbide, Graphite and Egg Shell particulates	Ranganatha, K. V. Sharma
02.40 pm	CCM 3061	Enhancement of adjusted solar still integrated with renewable energy: An experimental approach to recycling industrial wastewater	Abdeljalil Adam, Nabil Saffaj, Rachid Mamouni

Program Schedule of ICATCHCOME 2023

03.00 pm	CCM 4044	Bond Additive Molecular Descriptors of Zigzag Edge Coronoid Fused by Starphene	T.Gunasekar, P. Kathavarayan, G . Murugan
03.20 pm	CCM 5002	Processing and Fusion of 2D Signals Using Wavelet Transform	Ravikumar. K and Diana Vinster Nadeen. A
03.40 pm	CCM 5006	Effect of Various Metal Oxide Curatives on Ionomeric Elastomer (XNBR)	A Mouliswar Reddy, Sangram K Rath, Prakash Vislavath, Balasubramanian Kandasubramanian
04.00 pm	CCM 5053	Design of an efficient visible light communication system	G. Indumathi, R. Nandhini
04.20 pm	CCM 6058	Intermediate Phase Analysis of Cast Al7075 after the Addition of High-Temperature Oxides	Devang Mahant, Vandana Rao
04.40 pm	CCM 3046	Determination and eco-friendly suppression of fluoride contamination in ground water samples using activated carbon constituents of carica papaya – A natural adsorbent	Marimuthu Venkatesh Perumal, Andavar Manicka Mamallan, Veeriah Ragavan

**Session: ACH02 - ONLINE**

Date: 10.02.2023

Time: 10.30 am to 04.30 pm

**Session Chairs** : Prof. Dr.S. Senthilkumar, VIT-Vellore  
 Dr. M.S. Karthikeyan, Chemistry, KPRIET  
 Dr. S. Sabarinathan, Head, Chemistry, SRM, Chennai.  
 Dr. N. Prakash, CFRD, KPRIET  
 Mrs. V. Gayathri, Physics, KPRIET

**Session In-charge** : Mr.DEEPAK SSession Link : [meet.google.com/vsi-vqjb-ske](https://meet.google.com/vsi-vqjb-ske)

Session in-charge Contact Number : 7010395437

Time	Paper ID	Paper Title	Author(s)
10.30 am	CCM 5031	Organics, Clay, and Nanomaterials for Efficient Nutrient Management and crop production in sandy Agro ecosystem	R. Singaravel, K. Vishwanathan, T.Dhivya K. Keerthana and M.Seenivasan
10.50 am	CCM 5066	Electrochemical Characteristics of Eco-Friendly Electroless Copper Nano Film Deposition using Dithiocarbamate Derivative	P Balaramesh, S Jayalakshmi, V Anitha, Absara Fdo and P Venkatesh
11.10 am	CCM 5068	Synthesis, Characterization and Versatile applications of Silver Nanoparticles- A Bioinspired Approach	Ardra Lekshmi A, Amrutha Jayakumar, Anjana Sunilkumar, Aswathi Shyam, Smitha Chandran S
11.30 am	CCM 5091	Design, Formulation, in-vitro and in-vivo pharmacokinetic evaluation of Nicardipine-nanostructured lipid carrier transdermal drug delivery system	Purnachandra Rao Avula, Ananda Kumar Chettupalli, Vivek Chauhan, Rajendra Kumar Jadia
11.50 am	CCM 3091	AISI 4130 and E250BR alloy steels chassis structural analysis and performance comparison	Akash Gaikwad, Umesh Chavan
12.10 pm	CCM 6016	Design, Formulation, Biopharmaceutical Evaluation and In-vitro Screening of Boldine Phytosomes for Breast Cancer Therapy	Padmakumari. P, Ram Mohan Manda
12.30 pm	CCM 6033	Molecular Transport of Aromatic Hydrocarbons Through Ethyl Cellulose – Acrylonitrile Butadiene Styrene Blends	Sethu Lakshmi M.B., Bincy Francis, Ansu Jacob, Sunil Jacob, Anilkumar.S
02.00 pm	CCM 6034	Green Synthesis of Silver Nanoparticle Using Euphorbia Maculate Leaf Extract and their Catalytic Reduction and Antibacterial Properties	Neenu George, Jithin Joy, Beena Mathew, Ebey P Koshy

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02.20 pm	CCM 6067	Design of Mesalamine Loaded Micro-Particles: Preparation, Invitro and Invivo Characterization.	Laith Hamza Samein, Suman Idamakanti, Ananda Kumar Chettupalli, Raghu Ram Velamal, Mohammed Oday Ezzat
02.40 pm	CCM 6074	Cellular antioxidant and cytotoxic activity of Astaxanthin and Ellagic acid on UV irradiated Skin melanoma cells and gel formulation	Vaishnavi Bose Subash Chandra Bose, Vidhyabharathi Balaganesan, Gayathri Govindaraj and Veerabhuvaneshwari Veerichetty
03.00 pm	CCM 6078	Bilosomes as Fortunate Novel Nano vesicular Carriers for Improved Drug Delivery Systems	Saimadhuri Rajul, Bhavana Kandula, Ramya Ghanapuram, Raghuram Velamal, Ananda Kumar Chettupalli, Laith Hamza Samein
03.20 pm	CCM 7004	Antimicrobial Polyvinyl Alcohol/Neem oil Flexible Film for Food Packaging Applications	Achutha S, Kumari Nisha S, Sr. Barakala Pushpa, Soniya Andrews
03.40 pm	CCM 7009	Performance Analysis of Nitrogen Leaching in Sandy Soils - Effect of clay, FYM, and Humic acid	R.Singaravel G.Viswanathan and M. Seenivasan
04.00 pm	CCM 7022	Study of Different Parameters of Mixing on Biogas Production from Food Waste	Hemlata U. Karne and Aftab A. Sharif

**Session: CE02 - ONLINE**

Date: 10.02.2023

Time: 10.30 am to 04.30 pm

**Session Chairs** : Dr. K.S. Elango, Civil, KPRIET  
 Dr. S. Anandaraj, Civil, KPRIET  
 Dr. R. Saravanakumar, Civil, KPRIET  
 Dr.D. Vivek, Civil, KPRIET.

**Session In-charge** : Mr.ARAVINDH MSession Link : <https://meet.google.com/vya-daxp-btq>

Session in-charge Contact Number : 9626995789

Time	Paper ID	Paper Title	Author(s)
10.30 am	CCM 3096	Mechanical Strength of Coconut Fiber Reinforced Concrete	Antony Varghese, Sujatha Unnikrishnan
10.50 am	CCM 4004	Influence of Curative Temperature on Strength Enhancement of Diverse Grades with GGBS Amalgamation	Anamika Agnihotri, P.V. Ramana
11.10 am	CCM 4006	Assessment of Water Quality and Identification of Pollution in Cauvery River	M.Vigneshwaran, V.Mohanalakshmi, B.Sudha Priya
11.30 am	CCM 4009	Experimental correlation between destructive compression tests and non-destructive sclerometer tests (NDTS) on lightweight concrete using olive pomace aggregates	M. EL boukhari, O. Merroun, C.Maalouf, F.Bogard, B. Kissid
11.50 am	CCM 4053	Experimental investigation on the mechanical strength and thermal conductivity of concrete lightened by olive mill solid waste	M. EL boukhari, O. Merroun, C.Maalouf, F.Bogard, B. Kissi
12.10 pm	CCM 4084	A Study of Geotechnical Behavior of Hydraulic, Strength, Dispersion, and Durability Properties of High & Intermediate Compressibility of Clayey Soils Stabilized with Cement Industry by-pass product (Eco-Sand)	M.Ammaiappan
12.30 pm	CCM 4088	River Pollution Causes and Parameter Identification Using SPSS	Devidas Deshmukh, Shruti Topre, Dipraj Khairnar, Meghraj Zadke, Tanaya Nerlekar, Rohan Sawant
02.00 pm	CCM 4094	Laterite Soil Stabilization Using Cellulose Biopolymer	Arun W. Dhawale, Shailendra P. Banne
02.20 pm	CCM 4097	Enhancement of Strength of Concrete using Treated Grey water	S.Premkumar, S.Vidhyalakshmi

Program Schedule of ICATCHCOME 2023

02.40 pm	CCM 5046	Strength Characteristics of Fibre Reinforced Self Compacting Concrete using Marble Sludge Powder	Velci Shridevi PA, Shahul Hameed M, Kumar R, Dhanalakshmi A, Mohamed Thameem Ansari
03.00 pm	CCM 5050	Impact Strength and Weight Loss of Fiber-Reinforced Concrete Exposed to Elevated Temperatures	Ahmmad A. Abbass
03.20 pm	CCM 5051	Investigation on Enhancing the Mechanical Properties of Alkali-Activated Concrete based on Fly Ash with Wollastonite	Kothoju Sai baba, B. Kondraivendhan
03.40 pm	CCM 5058	Influence of Glass Powder Silica fume and Scrapped ceramic waste on the Mechanical Properties of concrete	Deepak Paithankar, Anurag Sharma, S. Thenmozhi, Prashant Ramteke, A. Dhanalakshmi, S.Sivakumar
04.00 pm	CCM 6046	Reactive Powder Concrete (RPC) As A Structural Composite	R. Malathy, D. Deepalakshmi, Manimoliselvan. C, Ajay.C, Dineshkumar.B, Manikandan. S



**Session: CE03 - ONLINE**

Date: 10.02.2023

Time: 10.30 am to 04.30 pm

Session Chairs : Dr. R. Dharmaraj, Civil, KPRIET  
 Mr. M. Elavarasan, Civil, KPRIET  
 Mr. S. Yuvaraj, Civil, KPRIET  
 Mr. V. Kavinkumar, Civil, KPRIET.

Session In-charge : Mr. Murali Manoj. G.

Session Link : <http://meet.google.com/dxa-yemm-mpf>

Session in-charge Contact Number : 9600305776

Time	Paper ID	Paper Title	Author(s)
10.30 am	CCM 5061	Experimental Investigations on Hybrid Fibre Reinforced Alkali Activated Concrete Mixes	Harish K M, Basavana Gowda S N, Sharan Kumar Goudar and Thanu H P
10.50 am	CCM 5069	Influence of Steel Fiber (SF) Addition on the Enhancement Compressive Strength of Pure Gypsum	Sinan Khaleel Ibrahim, Ahmed Aljubory, Nabil Habib Jassem, Zuhair Abd Hacheem, Karim Rashid Gubashi, Mohammed Abid Jameel, Hameed Zaier Ali, Mohammed Sabah Mohialdeen, Mahdi Resham Alak, Ahmed S. D. AL-Ridha
11.10 am	CCM 5073	Evaluation Properties of Areca Fiber Reinforced Biodegradable Composite Material	Murkur Rajesh, K Balaji
11.30 am	CCM 5076	Durability studies on concrete with partial replacement of cement and coarse aggregate by seashell waste	P.Sangeetha, V.E.Annamalai , P.Kaythry
11.50 am	CCM 6029	Effect of Alkaline Activator Solution Over GGBS Based Concrete Under Ambient Curing	A. Chithambar Ganesh, P. Siva Kumar, S. Kapilan, Abhay Kumar, Shaik Nazeer Basha, Veeramsetti Tejaeswar
12.10 pm	CCM 6063	Stabilization of soil using Kenaf Fibre and Rice Husk Ash	M.Uma Magesvari, Muthaiyan.P, Yugasini.S
12.30 pm	CCM 6076	An Experimental Study on the Usage of Silica Fume in High-Strength Bacterial Concrete	Prathyush K T, Poornima V, Murali Gopal, Nitish Rahul H S, Kumaraguru R V
02.00 pm	CCM 6079	Design of Regular and Irregular Structure with Static and Dynamic Analysis	Karthika S, Shahul Hameed M, Dhanalakshmi A, Jeyaseela J

Program Schedule of ICATCHCOME 2023

02.20 pm	CCM 6086	Experimental Study on Suitability of Sea sand as Fine Aggregate in Concrete	Radhakrishnan N, Shahul Hameed M, Dhanalakshmi A, Mahesh @Radhakrishnan S, Kathiresan S,
02.40 pm	CCM 7003	Geometric characterisation of the most used ceramic bricks for construction in Ecuador	David Cajamarca-Zuniga, Daniel Campos
03.00 pm	CCM 7005	Study of the Impact in Bituminous Mix using Crushed Waste Glass	G. Prabhakaran, Saddam Musa Patvegar, J. Prakash Arul Jose, D. Gouse Peera, Bhavesh Joshi, B. Ganeshkumar
03.20 pm	CCM 7006	Mechanical and Durability studies on Fly-ash based Fiber Reinforced Concrete	Panditharadhya B J, Raviraj H Mulangi and A U Ravi Shankar
03.40 pm	CCM 2084	Thermal insulation performance of green concrete using bio and industrial wastes: An experimental approach	Maria Rajesh Antony, Rathan Raj Rajendran, Mahmoud Al- Khazaleh, Adams Joe, Shalin prince
04.00 pm	CCM 3094	Application of Software for Formwork Automation in Aluminum Formwork System	P.Latha, N.Dhivyasri

**Session: ME03 - ONLINE**

Date: 10.02.2023

Time: 10.30 am to 04.30 pm

**Session Chairs** : Dr. B. Arulmurugan, AsP, Mech, KPRIET  
 Dr. S. Sathish, AsP, Mech, KPRIET  
 Dr. A. Vadivel, AP, SREC, Coimbatore

Session In-charge : Ms. SUBITHA A

Session Link : [meet.google.com/crc-tjbp-toa](https://meet.google.com/crc-tjbp-toa)

Session in-charge Contact Number : 8122415150

Time	Paper ID	Paper Title	Author(s)
10.30 am	CCM 4055	Process Parameters and Tool Geometry in Machining of SS316 Material using ECM	Vijaykumar K, Rajan N, Girmurugan R
10.50 am	CCM 4057	Experimental and theoretical investigation of concrete filled and encased steel column under compression loading	Velraj Kumar G, Mohan A, Gopalakrishnan R and Haritha S
11.10 am	CCM 4059	Experimental investigation on the effect of injection timing and injection duration of low reactive fuels on RCCI mode of combustion operated with plastic pyrolysis oil	Jatadhara G.S., T.K. Chandrashekar, N.R. Banapurmath, P.A. Harari, Chandramouli Vadlamudie, Sanjay Krishnappa
11.30 am	CCM 4065	Post Processing Techniques Used to improve the Quality of 3D Printed Parts Using FDM: State of Art Review and Experimental Work	D. A. Sawant, B. M. Shinde, S. J. Raykar
11.50 am	CCM 4083	Study on effect of injection pressure and nozzle hole geometry on IC engine using diesel and biodiesel	P Raghu, K.Toshin Prasaad, S.Tinesh Kumar, P. Viveesh
12.10 pm	CCM 5033	Stereolithographic printing of epithelial and mucosal scaffold	Palivela Bhargav Chandan, Pranav G Bhat, Devara Venkata Krishna, Aye Aye Thet, Mamilla Ravi Sankar
12.30 pm	CCM 5035	Comparison study on effect of different lubrication methods on Tool wear and surface roughness during end milling of die tool steel	Prasad B. Kawade, Sanjay Bokade
02.00 pm	CCM 5036	Electrical Discharge Machining of Titanium Alloy Using Diatomite Powder-Mixed Dielectric Fluid Based on RSM	V. Subha, S. Jagan Raj, R. Vijay Anand, S. Sathya, R. Jothikumar, M Anusuya
02.20 pm	CCM 5049	Buckling analysis of Laminated Composite Rectangular Plates with Diamond Cut-outs	Srivatsan B.S, Karthik B.D, Darshan. P, Bhaskara Rao Lokavarapu

Program Schedule of ICATCHCOME 2023

02.40 pm	CCM 5064	Review on An Integrated pre-treatment system to reduce membrane accelerated biofouling during red tide occurrences in Oman	Nageswara Rao Lakkimsetty, Varghese Manappallil Joy, Karunya S, Khadija Salim, Abdullah Al Bulushia
03.00 pm	CCM 5071	Numerical elastic fracture analysis of SENT test specimen subjected to non-linear loading	Piyush K Deshpande, Nagaraj Ekabote, Krishnaraja G Kodancha
03.20 pm	CCM 5072	Corrosion Behaviour of AA2024 Composites Reinforced with Slag, Calcium Carbonate and Solid Lubricants	N. Iyandurai, M. Muniyappan and P. Duraismy
03.40 pm	CCM 5075	Influence of Grain Refinement on Strength and Corrosion Resistance of 316LN Steel Welded Joint	Viranshu Kumar, Mukesh Kumar Sharma, Bagesh Bihari, Narayan Prasad, Naresh Sharma
04.00 pm	CCM 6049	Power Performance and Emissions Analysis of Outboard Diesel Engines by Use of Waste Cooking Oil Biodiesel	C.R.Berlin Selva Rex, C.R.Edwin Selva Rex, S. Shiny, J. Annrose

**Session: ME04 - ONLINE**

Date: 10.02.2023

Time: 10.30 am to 04.00 pm

**Session Chairs** : Dr. P. Manojkumar, AsP, Mech, KPRIET  
 Dr. S. Gokul Kumar, AP, Mech, KPRIET  
 Dr. M. Makesh Kumar, AsP Mech, KPRIET  
 Dr. S. Dharani Kumar, AP, Mech, KPRIET

**Session In-charge** : Mr. RAGHUL NSession Link : <http://meet.google.com/efy-cxgr-ktj>

Session in-charge Contact Number : 8668101022

Time	Paper ID	Paper Title	Author(s)
10.30 am	CCM 5077	Study of vibration suppression effect using particle damping technique on wind turbine blade by CAE	Umesh S Chavan, Santosh R Sandanshiv
10.50 am	CCM 5079	Use of Taguchi method for Optimizing Engine Parameters of VCR Diesel Engine Using Cocklebur seed Oil Biodiesel blended with Karanja Oil biodiesel	Sumod Pawar, Jitendra Hole, Mangesh Bankar, Shylesha Channapattana, Campli Srinidhi
11.10 am	CCM 5095	Design and efficiency optimization of deep drawing for sustainable electric pole cap application	Lydia Anggrainia, Fikri Auliaa
11.30 am	CCM 6017	Limit Elastic Speed Analysis for Functionally Graded Rotating Beam	Shashi Chichkhede, Deepak Mahapatra, Shubhashis Sanyal, Shubhankar Bhowmick
11.50 am	CCM 6018	Topology Optimization of Compliant Mechanism for various 3D printing materials	Gayathri Pallati, Raghu Babu Gadde
12.10 pm	CCM 6032	Mechanical Behaviour of Al6061 Hybrid Nanocomposites Reinforced with Nano Alumina and Molybdenum Disulfide	T. Anand, L. Ranganathan, G. Prabakaran, A. Srithar
12.30 pm	CCM 6036	Mathematical modeling and 'performance analysis' of a solar assisted vapour absorption refrigeration 'system'	Sanchita Singh, Pushpendra Singh
02.00 pm	CCM 6055	Effect of MoS <sub>2</sub> and Bronze on Tribological Behaviors of Polytetrafluoroethylene Composites	Prasad M Patare, Shailesh Palekar, Uday Asolekar, Sandhya P Patare, V Suryawanshi
02.20 pm	CCM 6057	Microstructure, Mechanical Properties and Corrosion Behaviour of Mg-Cu and Mg-Cu-Mn Alloys	Sonam Patel, Vandana Rao
02.40 pm	CCM 6071	Low Velocity Impact behaviour of Curved Nano Composite Panel-A Numerical Study	Arivoli Chinnarasu, K. Ramajeyathilagam

Program Schedule of ICATCHCOME 2023

03.00 pm	CCM 6097	Element Analysis of butt joint of 316Ln steel thin plate welded by Laser welding process	M. Zubairuddin, S. Satya Kumar, P. Jaikishan, Abdul Rahman, R. Ravi Kumar, A. K. Singh, A. Mishra, M. S. Reddy, P.S. Ranjith, P. K. Das, A. Saravanan
03.20 pm	CCM 7007	FE-Strength Evaluation of Ti-6Al-4V Alloy Dental Implant and 3D Printing Using PLA Material	Jandhyala Akshay Kumara, Kode Jaya Prakasha, Yeole Shivraj Narayana and B.Satyanarayanaa
03.40 pm	CCM 7008	Finite Element Analysis of laser welding of 304L butt joint	Abdul Rahman, G. S. Lathkar, M. Zubairuddin
04.00 pm	CCM 3012	Enhancing MRR in Face Milling by Varying Cutting Speed	Sanchit Kumar Khare, Gurpreet Singh phull, Piyush Gulati, Jai Inder Preet Singh

**Session: PH02 - ONLINE**

Date: 10.02.2023

Time: 10.30 am to 04.00 pm

**Session Chairs** : Prof.S. Ananth, Physics, KPRIET  
 Dr. A. Kalaivani, Physics, KPRIET  
 Dr. M. Sivanandam, Physics, KPRIET  
 Dr.R. Subramaniyan@ Raja, Physics, KPRIET.

**Session In-charge** : Ms. SARANYA DEVI M

Session Link : [meet.google.com/iws-esaf-hcp](https://meet.google.com/iws-esaf-hcp)

Session in-charge Contact Number : 7402558415

Time	Paper ID	Paper Title	Author(s)
10.30 am	CCM 3078	Synthesis and characterization of Ball Milled Thallium Nanopowder by Hall- Williamson and X-Ray diffraction method	Purushotham Endla and Endla Akhil Balaji
10.50 am	CCM 4001	Effect of complexing agent on structural, morphological and optical properties of ZnS thin films	Yogita S. Patil, Neelima A. Patil, G. L. Agawane, Shreyas A Lahor
11.10 am	CCM 4005	Preparation and characterization of strained Al nanoparticles by Ball milling method	Purushotham Endla and Endla Akhil Balaji
11.30 am	CCM 4020	Studies on Thermal, Dielectric and Nonlinear Optical Properties of Iodic Acid Doped L-asparagine L-tartaric Acid Crystal	K. Jeyapappa, P. Selvarajan
11.50 am	CCM 4037	Study of Visible Upconversion Luminescence in Er <sup>3+</sup> and Er <sup>3+</sup> /Yb <sup>3+</sup> Doped Tungsten Tellurite Glasses	Hemlata Kumari, Ghizal F. Ansari, S.K. Mahajan, Rezaul K. Sk, Sukhdev Bairagi
12.10 pm	CCM 4052	Synthesis and Characterization Studies of Sb <sub>2</sub> Se <sub>3</sub> Nano Flakes for Photovoltaic Applications	T. Kishore Kumar, A. Caroll Xavier, M. Sappani Muthu, P. Ajith, D. Prem Anand
12.30 pm	CCM 5011	Preparation of V <sub>2</sub> O <sub>5</sub> thin films on AA6061 alloy using Thermal evaporation	K Naveen kumar, Suthan R, Rajeshwari, Srusthti Ravikumar, Shubha Narendra, Sahana
12.50 pm	CCM 7021	Photocatalytic Study of Cobalt Aluminate Nanoparticles Synthesized by Solution Combustion Method	Nandana Babu, Dedhila Devadathan, Anju Sebastian, B. Vidhya
02.00 pm	CCM 5018	Superparamagnetic properties of iron oxide nanoparticles using vitex negundo leaf extract by green synthesis method and its antimicrobial activity against wound pathogen	T.Vigneswari, G.Kanthimathi, Lakshmanan Muthulakshmi
02.20 pm	CCM 5042	Characterization of functionalized multi-walled carbon nanotubes	Vijay B. Sarode Ravindra D. Patil and Gopal E. Chaudhari

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02.40 pm	CCM 6081	Research on the structural and electronic properties of silicene nanoribbon material adsorpted lithium	Tran Minh Tien
03.00 pm	CCM 6092	Structural Polymeric Surface using Breath Figures	Rajasree Deokar, Ahishek Kumar, Moutushi Dutta Choudhury
03.20 pm	CCM 2099	Preparation and Characterization Studies of Silica Tin Nanospheres from Indian Rice Husk for Suitable Photocatalytic Applications	A. Caroll Xavier, M. Vanjinathan, T. Kishore Kumar, P. Ajith, M. Sappani Muthu, J. Agnes, S. Anbarasu, D. Prem Anand
03.40 pm	CCM 5030	Study the Performance Characteristics of CI Engine with Hemp Oil Methyl Ester, Ethanol and Diesel	Harikrishna Nagwan, Raghubeer Singh Bangari, Kamlesh Singh, Pushpendra Kumar