

Third International Conference on  
**Recent Advances in Materials and Manufacturing (ICRAMM 2021)**

25-26, November 2021 | Kolhapur, India | [www.icramm.com](http://www.icramm.com)

**Program Schedule**

Date	Time	Event
25.11.2021	09.30 am	Inaugural Function <a href="https://us02web.zoom.us/j/84076487860?pwd=S0p6OVVibG5WVmQrcUxCM0tTU3U3Zz09">https://us02web.zoom.us/j/84076487860?pwd=S0p6OVVibG5WVmQrcUxCM0tTU3U3Zz09</a>
25.11.2021	10.15 am	<b>Keynote - Dr. A K Gupta</b> Executive Director D Y Patil Group
25.11.2021	11.00 am to 04.00 pm	Session: ICRAMM(PHY)
		Session: ME01(online)
		Session: ME02(online)
		Session: ME03(online)
		Session: ME04(online)
		Session: PH01(online)
		Session: CH01(online)
		Session: CE01(online)
26.11.2021	10.30 am to 04.00 pm	Session: EI01(online)
		Session: ME05(online)
		Session: ME06(online)
		Session: ME07(online)
		Session: ME08(online)
		Session: PH02(online)
		Session: CH02(online)
		Session: CE02(online)
26.11.2021	04.00 pm	Valedictory Function

PH-Physics;                      CH-Chemistry/Chemical Engg;  
 CE-Civil Engg;                ME - Mechanical Engineering  
 EI - Electronics & Instrumentation

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 SHOULD join the session at least 45 minutes 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 Coordinators 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: ICRAMM (PHY)

Date: 25.11.2021

Time: 11.35 am to 05.00 pm

Session Coordinator: Mr. V.I.Pasare

Contact Number: 9960518701

Venue: Seminar Hall -1, D.Y. Patil College of Engineering

Time	Paper ID	Paper Title
11.35 am	EMTP 2062	Evaluation of hydroxyapatite filler loading on dynamic mechanical properties of combined silk and basalt fabric reinforced epoxy nanocomposites
11.55 am	EMTP 2064	Dynamic mechanical analysis of 3d printed carbon fiber reinforced polylactic acid composites
12.15 pm	EMTP 2073	Role of alumina filler on thermal properties of carbon-epoxy nanocomposites
12.35 pm	EMTP 4001	Parametric Study of Concrete Mix Design (M20 and M30) using 100% crushed sand with special focus on silt content
02.00 pm	EMTP 3001	Effect of Ni <sup>2+</sup> substitution on DC electrical conductivity and magnetic properties of Ba <sub>1-x</sub> Ni <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> synthesized by citric acid gel method
02.20 pm	EMTP 3015	Dielectric properties and second harmonic generation of glycine doped bithiourea Cobalt and Nickel malonates as new semiorganic non-linear optical materials
02.40 pm	EMTP 2092	Experimental Investigation of Angular Error during Taper Cutting of Titanium (ASTM Grade 2) Using WEDM Process
03.00 pm	EMTP 4074	Optimization of Surface Finish and Material Removal Rate While Turning Hardened EN 353 steel using GRA
03.20 pm	EMTP 5038	Analysis of Microhardness and Degree of Work Hardening (DWH) while Turning Inconel 718 with High Pressure Coolant Environment
03.40 pm	EMTP 5041	Studies on structural and magnetic properties of Cobalt substituted Nickel nano ferrites prepared by microwave assisted self-propagating high temperature route
04.00 pm	EMTP 5042	Complex Proportional Assessment (COPRAS) based Multiple-Criteria Decision Making (MCDM) Paradigm for Hard Turning Process Parameters
04.20 pm	EMTP 5043	Analysis Process Parameters of 3D Printing for Surface Finish, Printing Time and Tensile Strength
04.40 pm	EMTP 2052	Parametric studies of decolourization of reactive red 120 by a novel approach of hydrodynamic cavitation

## Session: ME01

Date: 25.11.2021

Time: 11.00 am to 04.20 pm

Session Coordinator: Dr. A.J.Gujar

Session Link: <https://meet.google.com/ypq-usqc-ifx>

Session Coordinator Contact Number: +91 8412834040

Time	Paper ID	Paper Title
11.00 am	EMTP 1018	Exploiting the Thermal and Rheological Potentials of Graphene-PAG Nanolubricant for the Development of Energy Efficient Refrigeration Systems
11.20 am	EMTP 1039	Influence of Process Variables in the Abrasive Mixed Electrical Discharge Machining of Ti-6Al-4V
11.40 am	EMTP 1047	Simulation and Experimental analysis of re-design the faulty position of the riser to minimize shrinkage porosity defect in sand cast sprocket gear
12.00 noon	EMTP 1055	Machinability investigation of AISI 4340 steel with biodegradable oil based MQL system
12.20 pm	EMTP 1057	Influence of Abrupt Increase in Relief and the Flow Pattern in CD Nozzle
02.00 pm	EMTP 1063	Enhancement of Tribological Properties by Adding Titanium Dioxide (TiO <sub>2</sub> ) Nanoparticles in Mineral Based SN-500 Oil
02.20 pm	EMTP 1064	Weibull parameter based probability distribution for predicting creep life of power plant materials: A Non-destructive approach
02.40 pm	EMTP 1066	The Effect of Stacking Sequence on the Tensile Properties of Jute Fibre Reinforced Hybrid Composite Material for Axial Flow Fan Blades: An Experimental and Finite Element Investigation
03.00 pm	EMTP 1071	Analysis of impact energy absorption and dissipation capacity of different composite materials
03.20 pm	EMTP 1074	Comparative Evaluation of 3D Printed Components for Deviations in Dimensional and Geometrical Features
03.40 pm	EMTP 1077	Experimental and Numerical Investigation of Cross-Flow Nebulizer for Developing Optimized Suction Pressure
04.00 pm	EMTP 2022	Multiple Response Optimization of WEDM Parameters Using Grey Relational Method

## Session: ME02

Date: 25.11.2021

Time: 11.00 am to 04.20 pm

Session Coordinator: Dr.S.R.Todkar

Session Link: <https://meet.google.com/oro-rvgk-eah>

Session Coordinator Contact Number: +91 9822869463

Time	Paper ID	Paper Title
11.00 am	EMTP 2023	Investigation of Machining Characteristics of SKD 11 in WEDM
11.20 am	EMTP 2025	Investigation on Effect of TiN, TiAlN & DLC -Triple Layer Coated Carbide Tool in Machining of Al-Si 4032 Alloy
11.40 am	EMTP 2029	Investigation of Cure Behaviour and Tensile Properties of NR/SBR Composite Filled With Carbon Black and Silica
12.00 noon	EMTP 2036	Mechanical and Wear characteristics of Al2024/BN surface composite through friction stir processing
12.20 pm	EMTP 2037	Evaluation of UTS and compression strength of Al2024/B4C composites by experimental method and validation through regression analysis
02.00 pm	EMTP 2042	Fabrication and Post Processing Techniques to Enhance the Strength of Al-Si Alloy
02.20 pm	EMTP 2044	Influence of piston cavities cum domes and cavities of cylinder head on the performance of biodiesel blend fuelled diesel engine
02.40 pm	EMTP 2050	Validation of hardness and tensile strength of Al-Mg alloy reinforced with silicon carbide and graphite hybrid composite by regression equation
03.00 pm	EMTP 2051	Numerical Simulation of Hydro-Cyclone Separator used for Separation of Highly Dense Suspended Particulate Matter
03.20 pm	EMTP 2060	Numerical analysis of the influence of processing parameters on the microstructure of stainless steel 316L manufactured by laser-based powder bed fusion
03.40 pm	EMTP 2061	Productivity Improvement in Honing Machining Process
04.00 pm	EMTP 5010	Mechanical behaviour and microstructural evolution of constrained groove pressed Aluminium 2014 MMC

### Session: ME03

Date: 25.11.2021

Time: 11.00 am to 04.20 pm

Session Coordinator: Dr. D N Deomore

Session Link: <https://meet.google.com/fhv-emoq-yzn>

Session Coordinator Contact Number: +91 9422580879

Time	Paper ID	Paper Title
11.00 am	EMTP 2067	Effect of Nano filler addition on carbon reinforced polymer composite
11.20 am	EMTP 2069	Fabrication of steel-aluminium parts by impact extrusion
11.40 am	EMTP 2070	Fabrication and strength evaluation of nano-SiC particulate reinforced Al-6082 MMCs
12.00 noon	EMTP 2086	Droplet ignition analysis of Carbon Multiwall Nanotube and Alumina blended Jatropha Biodiesel
12.20 pm	EMTP 2091	Fabrication and Characterization of AZ31-B4C Composites
02.00 pm	EMTP 2066	Friction and Wear study of Graphite and Bronze filled Epoxy Matrix Composites
02.20 pm	EMTP 2096	Surface roughness optimization in laser machining of stainless steel 304 using response surface methodology
02.40 pm	EMTP 2098	Numerical studies on effect of ARC thickness for reflectance reduction of c-Si wafer
03.00 pm	EMTP 3004	Application of Additives to manufacture Quality Towel Grade Tissue Paper with Accelerated Productivity
03.20 pm	EMTP 3005	Theoretical estimation of efficiency defect in Cascade Refrigeration system using low Global Warming Potential Refrigerant pair
03.40 pm	EMTP 3010	Temperature and Strain Distribution during Friction Stir Welding of AA6061 and AA5052 Aluminum Alloy Using Deform 3D
04.00 pm	EMTP 3016	Composition and Temperature Dependence of Liquid AlSn Alloys

### Session: ME04

Date: 25.11.2021

Time: 11.00 am to 04.20 pm

Session Coordinator: Mr.P.D.Bagade

Session Link: <https://meet.google.com/xqy-yxsw-syc>

Session Coordinator Contact Number: +91 7020045672

Time	Paper ID	Paper Title
11.00 am	EMTP 3022	Removal of cadmium heavy metal ion using recycled black tonner powder
11.20 am	EMTP 3025	An experimental investigation on gasoline diesel and biofuelled RCCI combustion and its comparison with the conventional diesel combustion
11.40 am	EMTP 3027	Influence of Zn content in Al-Zn alloy on microstructure and wear rate routed through Taguchi's Technique
12.00 noon	EMTP 3035	Experimental Investigation on the performance of TiN Coated Tools in Milling of Aluminium
12.20 pm	EMTP 3036	Optimization of Machining Parameters in CNC Milling of Ti-6Al-4V Alloy using Multiple Methodology
02.00 pm	EMTP 3048	Investigate the effect of oxygen gas variation on wettability properties of chromium oxynitride coatings
02.20 pm	EMTP 3049	Effect of Process Parameters on High Aspect Ratio Laser Drilled Micro-holes using Nano Second Pulsed Laser
02.40 pm	EMTP 3052	Development of thermal insulation coating for automotive applications
03.00 pm	EMTP 3054	Design and optimization of a young balsa wood inspired lattice structure
03.20 pm	EMTP 3061	Estimation of Damping Ratio of Silicone Rubber using Half Power Bandwidth Method
03.40 pm	EMTP 3065	Parametric Study on Process Parameters of FDM 3D Printer for Thermoplastic Materials
04.00 pm	EMTP 5047	Study The Microhardness and Surface Roughness of As-Built and Heat-Treated Additive Manufactured IN718 Alloy

**Session: PH01**

Date: 25.11.2021

Time: 11.00 am to 04.00 pm

Session Coordinator: Mr.N.M.Qureshi

Session Link: <https://meet.google.com/nyc-pirn-vju>

Session Coordinator Contact Number: +91 9763717506

Time	Paper ID	Paper Title
11.00 am	EMTP 1032	Effect of Source-Substrate Distance on the Transparent Electrode Properties of Spray pyrolysed Aluminium Doped Zinc Oxide Thin Films
11.20 am	EMTP 1050	Comparative study on in vitro release kinetics of Gallic acid $\beta$ Cyclodextrin complex and Gallic acid Pluronic loaded films
11.40 am	EMTP 1090	LONG PERSISTENT AFTERGLOW LUMINESCENCE IN $Gd_3Al_3Ga_2O_{12}:Ce^{3+}$ , GREEN EMITTING ALUMINATE PHOSPHOR
12.00 noon	EMTP 2003	Characterization of Soft Chemically Deposited Yttrium Sulfide( $Y_2S_3$ ) Thin Films
12.20 pm	EMTP 2012	Enhancement of Coercivity of M-type Barium Hexaferrite by Ho Doping
12.40 pm	EMTP 2013	Study Of Intermediate Valence Fluctuation In Thulium Selenide( $TmSe$ )
02.00 pm	EMTP 2032	Power generation characteristics of 0-3 Cement/ $Ba_{0.06}Na_{0.47}Bi_{0.47}TiO_3$ composite using drop weight impact method
02.20 pm	EMTP 2055	Synthesis and Investigation of Structural and Conductivity of $MnO_2$ Nanoparticles in Enhancing the Distillate Yield of Single Slope Solar Still
02.40 pm	EMTP 2056	Probing the Dielectric Behavior of Lead-Free BCST Ceramic Composite: An Impedance Spectroscopic Approach
03.00 pm	EMTP 2057	Concentration dependence of the bulk and surface properties of liquid AlZn alloys at 1000 K
03.20 pm	EMTP 2059	Synthesis and electrical properties of $Ba(Fe_{0.5}Nb_{0.5})O_3-(Na_{0.5}Bi_{0.5})TiO_3$ ceramics
03.40 pm	EMTP 2072	Luminescence studies of europium and terbium doped calcium orthosilicate phosphors

## Session: CH01

Date: 25.11.2021

Time: 11.00 am to 03.20 pm

Session Coordinator: Mr. U.N.Patil

Session Link: <https://meet.google.com/qgw-vtdw-ndg>

Session Coordinator Contact Number: +91 9881153856

Time	Paper ID	Paper Title
11.00 am	EMTP 1073	Synthesis and Characterisation of Transition Metal Complexes of 2-Benzoyl Pyridine-2,4-Dinitrophenyl Hydrazone
11.20 am	EMTP 1091	Temperature dependent ionic parameter studies of a newly synthesized Na <sup>+</sup> ion conducting nanocomposite polymer electrolytes
11.40 am	EMTP 2004	Effect of Additives to Improve Bonding Strength of the Adhesive Prepared from Used Polymer: Sustainable Management Approach
12.00 noon	EMTP 2019	Chemical synthesis, Spectroscopic analysis, Antioxidant, and Antimicrobial activities of some hydrazones derived from 4-fluorobenzohydrazide
12.20 pm	EMTP 2041	Studies on the stress corrosion behaviour of Aluminium 6061 / Red Mud metal matrix composites
12.40 pm	EMTP 2053	An easy access to 2,3-dihydrofuran derivatives by oxidative cyclization reactions
02.00 pm	EMTP 2063	Impact of codoped on structural, electrical and magnetic properties of M-type strontium hexaferrite nanoparticles synthesized by soft chemical route
02.20 pm	EMTP 2065	Synthesis, Characterization and Applications: Novel Terpolymer and its Composite
02.40 pm	EMTP 2080	Copper crosslinked carboxymethyl chitosan-gelatin scaffolds: A potential antibacterial and cytocompatible material for biomedical applications
03.00 pm	EMTP 3000	Modeling of Thermal Cracking Reaction of Kerosene Range Hydrocarbons

**Session: CE01**

Date: 25.11.2021

Time: 11.00 am to 04.00 pm

Session Coordinator: Mr. N.T.Mohite

Session Link: <https://meet.google.com/wrc-asxp-xvh>

Session Coordinator Contact Number: +91 9822924738

<b>Time</b>	<b>Paper ID</b>	<b>Paper Title</b>
11.00 am	EMTP 1028	Seismic Response Reduction of High Rise Steel-Concrete Composite Buildings Equipped with Base Isolation System
11.20 am	EMTP 1036	Prediction of Split Tensile Strength of Zeolite Blended Concrete Using Multiple regression Analysis
11.40 am	EMTP 1038	An investigative approach on the influence of Woven Wire Mesh in Concrete
12.00 noon	EMTP 1078	Modelling Chloride Penetration Resistance of Supplementary Cementitious Concrete and Compressive Strength With Pulse Velocity
12.20 pm	EMTP 1093	Numerical study on ballistic impact behavior of hybrid composites
12.40 pm	EMTP 2047	Abrasion and Impact Resistance of Concrete Produced with Nano-silica
02.00 pm	EMTP 2068	Compressive strength optimization of geopolymer mortar made from alkaline liquid comprising acidic water
02.20 pm	EMTP 3013	Effects on geotechnical properties of soil by leachate in landfill vicinity: Cauvery River, Pallipalayam, India
02.40 pm	EMTP 3041	The effect of rice husk ash, silica fume, and quarry dust on glass fiber reinforced concretes strength properties
03.00 pm	EMTP 3042	Effect of size of Coarse Aggregate on Flow properties and Mechanical properties of Self Compacting Concrete
03.20 pm	EMTP 3095	Investigations of the effect of heat pipes on the temperature reduction and fatigue life of the components in the turning of High Carbon High Chromium steels
03.40 pm	EMTP 6012	Factors influencing Risk Perception Skills among Construction Sector Employees - A case study

**Session: EI01**

Date: 25.11.2021

Time: 11.00 am to 04.20 pm

Session Coordinator: Mr.U.P.Sutar

Session Link: <https://meet.google.com/erq-grqi-mdp>

Session Coordinator Contact Number: +91 9881563174

Time	Paper ID	Paper Title
11.00 am	EMTP 1098	Design and Development of Novel 3D bone scaffold for Implant Application
11.20 am	EMTP 2006	Coupled Field Analysis of Piezoelectric Materials for Sensor and Actuator Applications using Finite Element Method
11.40 am	EMTP 2077	Silicene nanoribbons when doped with Ag in the presence of an electric field
12.00 noon	EMTP 2081	Optical property analysis of transition and alkaline metal doped MoS <sub>2</sub> bulk layers for photo-sensor applications
12.20 pm	EMTP 3007	Optimising Proof Mass for Cantilever Based Piezoelectric Energy Harvester
12.40 pm	EMTP 3030	Optimization of Polyol Synthesized Silver Nanowires for Transparent Conducting Electrodes Application
02.00 pm	EMTP 3082	Modeling and Investigation on Mixing Characteristics of T & Y-Shaped Micromixers for Microfluidic Devices
02.20 pm	EMTP 3099	On Ion Transport during the Electrochemical Reaction on Plane and GLAD Deposited WO <sub>3</sub> Thin Films
02.40 pm	EMTP 4010	Fabrication of w-LEDs by coating Tri-Color Inorganic Phosphors on UV diodes
03.00 pm	EMTP 4076	Design, Modeling, Fabrication, Packaging and Characterization of MEMS Screech sensor
03.20 pm	EMTP 4079	Effect of Annealing and Oxygen Partial Pressure on the RF sputtered WO <sub>3</sub> thin films for electrochromic applications
03.40 pm	EMTP 5024	Design and Performance Analysis of SiO <sub>2</sub> -MOSFET Based Absorber for Reflected RF Signal
04.00 pm	EMTP 5025	Realization with fabrication of double-gate MOSFET based boost regulator

**Session: ME05**

Date: 26.11.2021

Time: 10.30 am to 04.00 pm

Session Coordinator: Mr. V.M.Kale

Session Link: <https://meet.google.com/iwk-iecg-sje>

Session Coordinator Contact Number: +91 7498505742

<b>Time</b>	<b>Paper ID</b>	<b>Paper Title</b>
10.30 am	EMTP 3068	Non- Linear Structural and Thermal Analysis of Automotive Brake Disc
10.50 am	EMTP 3069	Finite Element Analysis of Knee Joint Implant for Varying Bio Material using ANSYS
11.10 am	EMTP 3070	Optimization of Heat Dissipation in Concrete Ceiling
11.30 am	EMTP 3072	HOT CORROSION BEHAVIOR OF PLASMA SPRAYED FeCrNiC AND FeCrNiC/CENOSPHERE COATINGS ON ASTM-SA213-T22 STEEL
11.50 am	EMTP 3074	Quasi-static Response of Horse Hoof Inspired Biomimetic Structures
12.10 pm	EMTP 3086	Experimental Investigation of High cycle fatigue life of Jute Fibre Reinforced Hybrid Composite Material for Axial Flow Fan Blades
12.30 pm	EMTP 3089	Sustainable Heat-setting process in Stenter for Textile Industry
02.00 pm	EMTP 3092	Design and Simulation of Four bar Mechanism based Ornithopter
02.20 pm	EMTP 3093	Optimization of a knee implant with different biomaterials using finite element analysis
02.40 pm	EMTP 3098	Comparative analysis on single, double and triple fuel injection strategy of single cylinder RCCI engine fueled with ethanol-gasoline/Diesel-biodiesel blends
03.00 pm	EMTP 4004	Synthesis and characterization of electroless Ni-W-Ce-P coating on AISI 1010 substrate
03.20 pm	EMTP 4007	Low-velocity impact behaviours of AFP manufactured Fibre Metal Laminate structures
03.40 pm	EMTP 3034	Controlling oscillations behind high-speed vehicles

**Session: ME06**

Date: 26.11.2021

Time: 10.30 am to 03.40 pm

Session Coordinator: Mr. A.R.Matkar

Session Link: <https://meet.google.com/nyi-ogkq-fqh>

Session Coordinator Contact Number: +91 8830282036

Time	Paper ID	Paper Title
10.30 am	EMTP 4011	Study on Fabrication and Mechanical Characterization of AA8011/Al <sub>2</sub> O <sub>3</sub> /B <sub>4</sub> C Hybrid Nanocomposites
10.50 am	EMTP 4014	Investigating the effects of tool offset distance and SiC particles on microstructural and mechanical properties of AA6082/SiC composites via friction stir processing
11.10 am	EMTP 4023	Thermal-Hydraulic Analysis of Axial Gas Turbine Blade
11.30 am	EMTP 4024	Free vibrations of rectangular plates simply supported at two opposite edges and elastically restrained at the two other edges. An analytical and a semi-analytical methods.
11.50 am	EMTP 4025	Linear and nonlinear vibrations of isotropic rectangular plates resting on full or partial line supports
12.10 pm	EMTP 4026	A Semi analytical method for in-plane free vibrations of arches with a variable curvature
12.30 pm	EMTP 4029	Studies on Thermo-Mechanical Properties of Polyethyleneimine (PEI) Modified HNTs Filled ABS/PVC Composites
02.00 pm	EMTP 4031	Role of Alloying additions on Phase Transformations, Mechanical and Pseudoelastic behavior of Cu-Al-Be Shape Memory Alloys
02.20 pm	EMTP 4034	Topological Optimization of Wheel Assembly Components
02.40 pm	EMTP 4037	Design and Analysis of SLS Mechanism for Hand Operated Vibrating Machines
03.00 pm	EMTP 4038	Effect of injection timing on the performance of dual fuel engine fueled with Algae Nano-biodiesel blends and Biogas induction
03.20 pm	EMTP 4043	A study of morphology, UV measurements and Zeta Potential of Zinc Ferrite and Al <sub>2</sub> O <sub>3</sub> nanofluids

**Session: ME07**

Date: 26.11.2021

Time: 10.30 am to 03.40 pm

Session Coordinator: Mr.Suraj Gavli

Session Link: <https://meet.google.com/fef-wboa-bvs>

Session Coordinator Contact Number: +91 9960462441

<b>Time</b>	<b>Paper ID</b>	<b>Paper Title</b>
10.30 am	EMTP 4049	Prediction of Effective Ventilation in A Bleaching Industry Using CFD Analysis- A Case Study
10.50 am	EMTP 4059	CFD analysis on idly baking vessel using two different patterns of idly trays for the reduction of baking time
11.10 am	EMTP 4062	A Nonlinear Process Monitoring Strategy for a Metal Forming Process
11.30 am	EMTP 4066	Studies on Thermo-Mechanical Properties of HNTs Filled ABS/PVC Composites
11.50 am	EMTP 4068	MULTI-CRITERIA DECISION MODEL FOR SELECTION OF A MATERIAL SUITABLE TO LIGHTNING STRIKE PROTECTION IN AEROSPACE APPLICATIONS
12.10 pm	EMTP 4073	Analysis of Universal Joint using Virtual simulation method
12.30 pm	EMTP 4077	Tool Wear and Burr Formation During Drilling of Aluminum Alloy 7075 in Dry and with Cutting Fluid
02.00 pm	EMTP 4078	Performance prediction of single cylinder four stroke Super-turbocharged diesel engine using Taguchi approach
02.20 pm	EMTP 4080	Synthesis and Evaluation of Mechanical Properties of Cryogenically Solidified Al-ZrO <sub>2</sub> Nanocomposite
02.40 pm	EMTP 4081	Temperature and Test Specimen Thickness (TST) effect on tensile and fracture behavior of AA2050-T84 alloy
03.00 pm	EMTP 4086	Impact of Hall Current, Dufour and Soret on Transient MHD flow past an inclined porous plate: Finite Element Method
03.20 pm	EMTP 5022	Numerical Investigation on Perforation Resistance of Carbon-Glass Epoxy Hybrid Composite Laminate under Low Velocity Impact

**Session: ME08**

Date: 26.11.2021

Time: 10.30 am to 04.00 pm

Session Coordinator: Mrs. Shubhada Warke

Session Link: <https://meet.google.com/wxd-styn-pwr>

Session Coordinator Contact Number: +91 9766560056

Time	Paper ID	Paper Title
10.30 am	EMTP 4084	Experimental study on overcut and taper of micro-holes fabricated in carbon fiber reinforced plastic using electrochemical discharge machining process
10.50 am	EMTP 4087	Effect Of Longitudinal Parameter on The Vibration Characteristics of Unidirectional Monolayer Glass Epoxy Composite
11.10 am	EMTP 4088	A 3-D Numerical Simulation of Fatigue Crack Growth in an Alumino Thermite Welded UIC60 Rail Joint Under Different Loading Conditions
11.30 am	EMTP 4089	Influence of deposition time and surface roughness on microstructure and corrosion behavior of sputter deposited pure Al coating on 4130 chromalloy steel
11.50 am	EMTP 4093	A Comparative Study of Mechanical, Morphological and Vibration Damping Characteristics of Wood Fiber Reinforced LLDPE Processed by Rotational Moulding
12.10 pm	EMTP 4096	Optimization of Machining Parameters in EDM of Ti-6Al-4V Alloy Using Taguchi Grey Relational Analysis Methodology
12.30 pm	EMTP 5008	NOVEL PROCESS PARAMETERS BASED APPROACH FOR REDUCING RESIDUAL STRESSES IN WAAM
02.00 pm	EMTP 5011	A Numerical Study of Viscous Dissipation with First Order Chemical Reaction and Ohmic Effects on MHD Nanofluid Flow through an Exponential Stretching Sheet
02.20 pm	EMTP 5020	Design and Fabrication of an Adjustable Stirring and Degassing System for Synthesis of Metal Matrix Composite Material
02.40 pm	EMTP 5021	Investigation of Wall Pressure at Area Ratio 6.25 in a Suddenly Expanded Flow Field at Mach 1.87 and Mach 2.2
03.00 pm	EMTP 1029	Investigation of aerodynamic characteristics of NACA0012 airfoil design using parabolic arcs
03.20 pm	EMTP 5019	Experimental and Numerical Studies on the Heat Transfer Characteristics of Small Shell and Tube Heat Exchanger
03.40 pm	EMTP 6017	Optimization of multi gating system for the experimental investigation in flow parameters with effects of design in small scale industries

**Session: PH02**

Date: 26.11.2021

Time: 10.30 am to 04.00 pm

Session Coordinator: Mr. Hrishikesh Jadhav

Session Link: <https://meet.google.com/ekg-qvyt-goh>

Session Coordinator Contact Number: +91 996004229

Time	Paper ID	Paper Title
10.30 am	EMTP 2090	Electrical studies of $Pb_{0.6}Bi_{0.4}Fe_{0.7}Nb_{0.3}O_3$ Multiferroic
10.50 am	EMTP 2097	Application of Liquid crystal thermography for temperature measurement the absorber plate of Solar Air Heater
11.10 am	EMTP 3002	RF Sputtered CuO Thin Film for PV Applications
11.30 am	EMTP 3021	Magnetostrictive and Structural Properties of Fe-Ga Alloys
11.50 am	EMTP 3097	VO 2+ ions in Zinc bismuth borate glasses studied by EPR, Optical and FTIR techniques
12.10 pm	EMTP 4000	Effect of Vein Graphite on Mechanical, Curing, and Thermal Properties of Solid Tire Vulcanizate
12.30 pm	EMTP 4047	Vapour-liquid equilibrium in methanol + water system and modeling from 298.15 to 373.15K
02.00 pm	EMTP 4058	Corn starch biofilm reinforced with orange peel powder : Characterization of physicochemical and mechanical properties
02.20 pm	EMTP 4072	Studies of Structural and Optical Properties of Tungsten Tellurite Glasses
02.40 pm	EMTP 4095	Development and Characterization of Flame Retardant Property in Flexible Polyurethane Foam
03.00 pm	EMTP 5000	Experimentally and theoretically via high quality density function theory modelling technique and nonlinear optical analyses of 2,6-Dimethoxy-4-hydroxybenzaldehyde
03.20 pm	EMTP 5013	Investigation of Gaint Magnetocapacitive Effect in CdCr2S4:Study of Possible Local Lattice Distortion
03.40 pm	EMTP 1094	Investigation of Structural and Dielectric properties of Gd <sup>3+</sup> substituted nickel zinc ferrite prepared via low-temperature citrate gel auto-combustion method

**Session: CH02**

Date: 26.11.2021

Time: 10.30 am to 04.00 pm

Session Coordinator: Mr. A.R.Patil

Session Link: <https://meet.google.com/cez-pnfm-sum>

Session Coordinator Contact Number: +91 9763182322

Time	Paper ID	Paper Title
10.30 am	EMTP 3024	Investigation of geometric and gravimetric properties of pumpkin seeds ( <i>Cucurbita maxima</i> ) under convective drying
10.50 am	EMTP 3039	Synthesis and Characterization of Manganese Doped Cobalt Oxide porous nanoparticles Dispersed Epoxy composites
11.10 am	EMTP 3056	Mesoporous Zirconia Embedded Polyvinylidene difluoride Conducting Films for EMI Shielding applications
11.30 am	EMTP 3060	DNA Cleavage Studies of Newly synthesized Mononuclear Schiff Base Cu(II), Ni(II), Co(II), and Mn(II) Complexes derived From Isatin and p-nitroaniline
11.50 am	EMTP 4039	Efficacy of Mass Transfer Coefficient: Multiple Pentagonal Plate Assembly
12.10 pm	EMTP 4085	Broad Spectrum of Bioactive Compounds from Halophilic Actinomycetes Isolated from The Kodiyakadu Saltpan of Vedaranyam-India
12.30 pm	EMTP 4090	Sodium Lauryl Sulphate Removal using Copper electrodes without and with perforations by Electro Coagulation Process
02.00 pm	EMTP 4091	Adsorption of Methylene Blue Dye on Nano Graphene Oxide- Thermodynamics and Kinetic Studies
02.20 pm	EMTP 5002	Zolmitriptan Loaded Topical Liposomal Gels for Enhanced Skin Penetration and Assessment of its Efficacy in Acute Migraine as an Intranasal Delivery
02.40 pm	EMTP 5004	Extraction of oil palm biomass components in ionic liquids and $\gamma$ -valerolactone with microwave assisted method followed by alkaline fractionation
03.00 pm	EMTP 5018	Transesterification of Waste Palm Oils with the Help of Waste Egg Shell Derived Calcium Based Mixed Metal Oxides
03.20 pm	EMTP 4082	Drying kinetics, mass transfer attributes, and specific energy consumption analysis of watermelon seed dried using the convective dryer
03.40 pm	EMTP 5035	Nanofluid flow with activation energy and heat generation under slip boundary condition with convective heat and mass transfer

**Session: CE02**

Date: 26.11.2021

Time: 10.30 am to 04.00 pm

Session Coordinator: Mr. K. Sivakumar

Session Link: <https://meet.google.com/uua-frpn-iqc>

Session Coordinator Contact Number: +91 9789489103

<b>Time</b>	<b>Paper ID</b>	<b>Paper Title</b>
10.30 am	EMTP 3050	Sustainable utilization of waste slag aggregates as replacement of coarse aggregates in concrete
10.50 am	EMTP 3053	Flexural behaviour of GFRP strengthened RC beams under cyclic loading
11.10 am	EMTP 3080	Experimental Evaluation on Workability and Strength Characteristics of Self-consolidating Geopolymer Concrete Based on GGBFS, Fly Ash and Alccofine
11.30 am	EMTP 3084	Performance of Fly Ash and Partial Replacement of Fine Aggregate by Steel Mill Slag based Geopolymer
11.50 am	EMTP 3087	Evaluation of strength, durability characteristics of Flyash, GGBFS and Alccofine based Self-Compacting Geopolymer Concrete
12.10 pm	EMTP 3088	Vogel Fulcher Analysis of Electrical Studies Of NBT-CT Ceramic Composites
12.30 pm	EMTP 4028	Influence of Industrial Waste Materials on Thermal Conductivity of Foamed Concrete
02.00 pm	EMTP 4042	Mechanical and Durability characteristics of flyash and GGBFS based polypropylene fibre reinforced geopolymer concrete
02.20 pm	EMTP 5005	Behavior of Self Compacting Geopolymer Concrete Using Silica Fume and GGBFS With Various Replacements of R-Sand AND M-sand
02.40 pm	EMTP 5023	Free Convection in an Inclined Porous Cavity with Sinusoidal Heating on Sidewalls
03.00 pm	EMTP 5045	Effects of Pack Boriding and Induction Boriding on the Dry Sliding Wear Behavior of High Speed Steel
03.20 pm	EMTP 3073	Seismic Endurance of Box-Girder Bridge With Different Piers
03.40 pm	EMTP 6014	Gypsum polymer materials for building facades

**Session: ME09**

Date: 26.11.2021

Time: 10.30 am to 01.10 pm

Session Coordinator: Mr. J. Sevugan Rajesh

Session Link: <https://meet.google.com/wrc-asxp-xvh>

Session Coordinator Contact Number: +91 8883782533

<b>Time</b>	<b>Paper ID</b>	<b>Paper Title</b>
10.30 am	EMTP 6027	Enriching 1,8-cineole content in Eucalyptus camaldulensis D. raw essential oil: An investigation on optimizing vacuum fractional distillation process
10.50 am	EMTP 6029	The structure and thermodynamic properties of silicene materials in the cooling process: A new sight from molecular dynamics simulation
11.10 am	EMTP 6030	Effects of Microwave and Ultrasound Treatment on Vitamin C, Polyphenols and Antioxidant activity of Mango ( <i>Mangifera indica</i> ) During Low Temperature Drying
11.30 am	EMTP 5001	Faraday Magnetometer with Polar Hemispheres: Stability Zones for measuring of magnetic susceptibility of particles
11.50 am	EMTP 4048	Simulation of dynamic processes in earth dams under shock impacts
12.10 pm	EMTP 5034	A analytical study of wind speed distribution at Government First Grade College premises in Hosadurga, India
12.30 pm	EMTP 5036	Aluthge Transformation on class A(k*) Operator
12.50 pm	EMTP 5044	Fabrication of Cajeput essential oil nanoemulsions by phase inversion temperature process