

Second International Conference on  
**Recent Advances in Materials and Manufacturing (ICRAMM 2020)**

20-21, November 2020 | Erode, India | [www.icramm.com](http://www.icramm.com)

**Program Schedule**

Date	Time	Event
20.11.2020	09.30 am	Inaugural Function
20.11.2020	10.00 am	<b>Keynote 1</b> <b>Prof. Dr. SahrimHj Ahmad</b> Department of Applied Physics Faculty of Science and Technology University Kebangsaan Malaysia Malaysia
20.11.2020	10.45 am	<b>Keynote 2</b> <b>Dr. Mani V N</b> Scientist-F Centre for Materials for Electronics Technology (C-MET) Department of Information Technology Govt. of India, Hyderabad India
20.11.2020	11.30 am to 04.30 pm	Session : PH01
		Session : CH01
		Session : CH02
		Session : CE01
		Session : MA01
		Session : ME01
		Session : ME02
		Session : ME03
21.11.2020	09.30 am	<b>Keynote 3</b> <b>Dr. Balasubramanian V</b> Prof. & Head Department of Manufacturing Engineering Annamalai University Chidambaram, Tamil Nadu India
21.11.2020	10.15 am	<b>Keynote 4</b> <b>Dr. MrityunjayDoddamani</b> Department of Mechanical Engineering National Institute of Technology Karnataka (NITK) Surathkal, Karnataka INDIA

21.11.2020	11.00 am to 04.00 pm	Session : PH02
		Session : CH03
		Session : CE02
		Session : CE03
		Session : ME04
		Session : ME05
		Session : ME06
21.11.2020	04.00 pm	Valedictory Function

PH-Physics;  
CE-Civil Engg;

CH-Chemistry/Chemical Engg; MA-Mathematics;  
ME –Mechanical Engineering

Link for Inaugural & Keynote: <http://meet.google.com/bqw-zgod-zst>

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. Duration of presentation: 10 minutes (presentation) + 3 minutes(Queries)
5. Participant using Google Meet will be admitted at any time prior to their scheduled time.
6. Participants are requested to follow the scheduled time; especially regarding the time for your talk.
7. Participants are requested to contact the respective session In-Charges for presentation related queries.
8. If any problem connecting to session, please text to the respective session In-Charges (Or) ICRAMM Whatsapp group during presentation date(s).

**Session: PH01**

Date: 20.11.2020

Time: 11.30 am to 04.30 pm

Session In-charge: Ms. S. DEVI

Session Link: <https://meet.google.com/yha-zgjf-cmp>

Session in-charge Contact Number: + 91 90037-45669

Time	Paper ID	Paper Title
11.30 am	EMTP 5082	Characterization and Antibacterial Properties of Biogenic Spherical Silver nanoparticles
11.50 am	EMTP 5089	Highly Stable Colloidal Gold Nanoparticles Using Biopolymer Silk Sericin: Characterization and Antibacterial Activity
12.10 pm	EMTP 6005	Fabrication and Conductivity Study of Silver Nanoparticles Loaded Polyvinyl Alcohol (PVA-AgNPs) Nanofibres
12.30 pm	EMTP 6038	Ellipsometric and third-order nonlinear optical studies of pulsed laser deposited aluminium doped zinc oxide thin films
02.00 pm	EMTP 6065	Effect of post irradiation of IR light on the structural, morphological and optical properties of ZnO thin film grown by CBD method
02.20 pm	EMTP 6067	Transport properties of n-type $Cu_x-TiyCz$ thin film semiconductor at different Cu/TiC ratios
02.40 pm	EMTP 6069	Band gap energy Calculation of cobalt doped Bismuth Ferrite Nanoparticles
03.00 pm	EMTP 6087	Green synthesized gold nanoparticles for sustainable environmental remediation
03.20 pm	EMTP 7002	Energy Transfer from Fluorescein dye dispersed with CdS Nanoparticles as evidenced by emission spectrum measurements
03.40 pm	EMTP 7003	Structural, Optical and Thermal studies of novel Nonlinear Optical material- L-valine doped Guanidine carbonate single crystal
04.00 pm	EMTP 7006	Beneficial modification of the electrical properties of ecofriendly ferroelectric ceramic $Na_{0.5}Bi_{0.5}TiO_3$ by substitution of low concentration of $Ho^{+3}$
04.20 pm	EMTP 7010	Impedance Spectroscopic Studies of Lead Zirconate Titanate Ferroelectrics

**Session: CH01**

Date: 20.11.2020

Time: 11.30 am to 04.30 pm

Session In-charge: Mr. D. SENTHIL KUMAR

Session Link: <http://meet.google.com/vzt-bhzt-icw>

Session in-charge Contact Number: +91 96552-53618

Time	Paper ID	Paper Title
11.30 am	EMTP 5058	Abundant Nipa Palm Waste as Bio-Pellet Fuel
11.50 am	EMTP 5068	Non enzymatic electrochemical detection of Paraoxon Methyl using Zinc oxide Graphene nanocomposite in water and food samples
12.10 pm	EMTP 6033	Synthesis and non-isothermal decomposition of copper(II) complex under dynamic nitrogen atmosphere
12.30 pm	EMTP 6035	Thermo analytical Study of Nitrones in Static Air
02.00 pm	EMTP 6042	In Vitro Antimicrobial Screening of Methanolic extract of Mikania micrantha and Drymaria cordata against S. Aureus and its textile application
02.20 pm	EMTP 6076	Convective heat and mass transfer of chemically reacting fluids with activation energy along with Soret and Dufour effects
02.40 pm	EMTP 6079	Review on poly(ethylene oxide)-based electrolyte and anode nanomaterials for the internet of things node-level lithium-ion batteries
03.00 pm	EMTP 6098	Hydrogen diffusion in Ni-Cr-Fe system
03.20 pm	EMTP 7016	Functionalization of Cotton Fabric with Titania Silica Aerogel Using Rice Husk as Precursor for Enhanced UV Shielding
03.40 pm	EMTP 7019	Evaluation of Anti-Cancer Activity of Phytosomes Formulated from Aloe vera Extract
04.00 pm	EMTP 7026	Investigation of Structural and Chemical Properties of Nanocrystalline Titanium Oxide Material

**Session: CH02**

Date: 20.11.2020

Time: 11.30 am to 04.20 pm

Session In-charge: Mr. V.MOHAN KUMAR

Session Link: <https://meet.google.com/eiw-afzp-nxk>

Session in-charge Contact Number: +91 95666-04166

Time	Paper ID	Paper Title
11.30 am	EMTP 7028	Modeling and Optimization of Dynamic Viscosity of Copper Nanoparticles Dispersed in Gear Oil Using Response Surface Methodology
11.50 am	EMTP 7029	Viscosity prediction and optimization of ZnO-coconut oil nanofluids using numerical simulation
12.10 pm	EMTP 7031	Stimulation of Pithecellobium dulce (jungle jalebi) seed with electromagnetic exposure and its impact on biochemical parameter and growth
12.30 pm	EMTP 7040	Structural, Photoluminescence, and Photocatalytic Properties of Mn and Eu co-doped ZnO Nanoparticles
02.00 pm	EMTP 7064	Polyvinyl alcohol/Methyl Orange Flexible Film as Reusable pH Indicator
02.20 pm	EMTP 7071	Synthesis, Characterization and Ion-exchange Properties of 4,4 Oxy-dianiline,2,6 diamino-pyridine with Formaldehyde Terpolymer
02.40 pm	EMTP 7076	Mikania mikrantha leaf extract mediated biogenic synthesis of magnetic iron oxide nanoparticles: Characterization and its antimicrobial activity study
03.00 pm	EMTP 7080	Fly ash to solid base catalyst: Synthesis, characterization and catalytic application
03.20 pm	EMTP 7085	Preparation and Characterization of Boron Doped CN'S/MnO <sub>2</sub> and Its Photocatalytic Application of Dye Degradation
03.40 pm	EMTP 7086	Selection of Materials for Improvement in Performance Parameters of DSSC
04.00 pm	EMTP 7093	Studies on Ionic Mass Transfer in an Electrolytic Cell in the Presence of Triangle Teethed Baffles

**Session: CE01**

Date: 20.11.2020

Time: 11.30 am to 04.30 pm

Session In-charge: Mr. C. KARTHIK

Session Link: <http://meet.google.com/uqz-wcsi-pqw>

Session in-charge Contact Number:+91 98942-58913

Time	Paper ID	Paper Title
11.30 am	EMTP 5028	Utilization of PET bottles and Plastic granules in Geopolymer Concrete
11.50 am	EMTP 5056	Statistical Analysis of Mechanical Properties of Al-SiC-WC and Al-SiC-Al <sub>2</sub> O <sub>3</sub> composites
12.10 pm	EMTP 5090	Performance assessment of high strength concrete comprising marble cutting waste and fly ash
12.30 pm	EMTP 5096	A Novel approach of Surface Crack Detection Using Super Pixel Segmentation
02.00 pm	EMTP 5097	Bending Analysis of Laminated Sandwich Plates under Hygrothermal Loadings
02.20 pm	EMTP 6012	Impact Strength of Polypropylene & Steel Fiber in 2- layer Slab With Mineral Admixture Concrete
02.40 pm	EMTP 6015	Experimental Investigation on Mechanical Properties of Banana/Snake Grass Fiber Reinforced Hybrid Composites
03.00 pm	EMTP 6018	Mechanical and Durability Properties of Standard Concrete with Partial Replacement of Fine Aggregate by Sugarcane Bagasse Ash(SCBA)
03.20 pm	EMTP 6039	Influence of mixture composition on the properties of Foamed concrete
03.40 pm	EMTP 6045	Impact of Material Properties on Characteristics of Engineered Cementitious Composite
04.00 pm	EMTP 6054	Effect of Bacteria Subtilis on E-Waste Concrete
04.20 pm	EMTP 6055	Effect of Web Opening Diameter on Performance and Failure Mode of CFRP Repaired RC Beams

**Session: MA01**

Date: 20.11.2020

Time: 11.30 am to 04.30 pm

Session In-charge: Mr. K. VETRI

Session Link: <http://meet.google.com/rai-ziaq-ouk>

Session in-charge Contact Number: +91 96775-33775

Time	Paper ID	Paper Title
11.30 am	EMTP 5026	Identifying Features Impacted Attitude of Indian Students using Regression Modeling for Real-Time System
11.50 am	EMTP 5038	Extension of Bridge Graphs and their Chemical Applications
12.10 pm	EMTP 6011	MATLAB automated higher-order tetrahedral mesh generator for CAD geometries and a finite element application with the subparametric mappings
12.30 pm	EMTP 6013	Effect of three phase lag model on the free vibration analysis of nonlocal elastic generalized thermo-diffusive Sphere
02.00 pm	EMTP 6023	Vibrations of nonlocal thermoelastic voids sphere with three-phase-lag model
02.20 pm	EMTP 6031	Degree Based Descriptors of Certain Classes of Dendrimer Graphs
02.40 pm	EMTP 6081	Optimal pricing and greening decision in a manufacturer retailer dual-channel supply chain
03.00 pm	EMTP 6086	Identifying Influential nodes in Planar Trusses and Meshes using centrality measures
03.20 pm	EMTP 6092	PAPR assessment of OFDM and Pseudo Random Phase Sequences based PTS Algorithm over diverse Sub-carriers
03.40 pm	EMTP 7061	Design and Modeling of an Electric Vehicle for Facilitating Door Delivery of Online Orders
04.00 pm	EMTP 7095	Integrated Monitoring of the System Components Using Metric Dimension of Graphs

**Session: ME01**

Date: 20.11.2020

Time: 11.30 am to 04.30 pm

Session In-charge: Mr. L. ARUL SHANKAR

Session Link: <http://meet.google.com/any-wosz-eby>

Session in-charge Contact Number: +91 94883-38613

Time	Paper ID	Paper Title
11.30 am	EMTP 5007	Effective Study on Developments in Photovoltaic Thermal (PV/T) Water Heating System
11.50 am	EMTP 5043	Experimental and CFD Analysis of Copper Plain and Dimples Tube at Application of Solar Water Heater
12.10 pm	EMTP 5044	Experimental and CFD Analysis of Plain and Dimples Tube at Application of Solar Water Heater
12.30 pm	EMTP 5047	Measurement of Roundness on the Bearing by Varying Probe Length in CMM
02.00 pm	EMTP 5059	Fabrication and Experimental Analysis of Hydroxyapatite Based Composite Materials for Medical Implants
02.20 pm	EMTP 5067	Effect Of Thermal And Surface Chemical Treatment On The Cyclic Oxidation Behavior Of 7039 Aluminum Alloy Used In Aerospace Armor Applications
02.40 pm	EMTP 5077	Investigation On The Effect Of Si Addition To The High Temperature Cyclic Oxidation Behaviour Of $\beta$ -NiAlDy Alloy Used In Advanced Jet Engine Applications
03.00 pm	EMTP 5084	Experimental and Static Numerical Analysis on Bumper Beam to be Proposed for Indian Passenger Car
03.20 pm	EMTP 5091	Simulation of plate rolling process using finite element method
03.40 pm	EMTP 5093	Experimental Optimization of Cutting Parameters in Turning of Brass alloy using Taguchi method
04.00 pm	EMTP 5094	Effect of Wire Feed Rate on Morphology and Microstructure Development During Bead on Plate Welding of Microalloyed Steel Using P-GMAW
04.20 pm	EMTP 6017	Liquid-solid phase reaction products formation in the diffusion welded joints made between Ti-6Al-4V and AISI304L with brass interlayer



**Session: ME02**

Date: 20.11.2020

Time: 11.30 am to 04.30 pm

Session In-charge: Mr. G. RAJA

Session Link: <http://meet.google.com/aic-kgpw-ocu>

Session in-charge Contact Number: +91 98421-04444

Time	Paper ID	Paper Title
11.30 am	EMTP 6021	Fabrication of Al6063 alloy, silicon carbide and boron glass powder metal matrix composites in stir casting process and analysis the impact of process variables on mechanical properties
11.50 am	EMTP 6028	Design and Development of Compact Foxtail Millet Deshelling Machine
12.10 pm	EMTP 6029	Machining Parameter Selection In Milling Epoxy Granite Composites Based On AHP
12.30 pm	EMTP 6030	A Constrained Multi-Objective Optimization of Turning Process Parameters by Genetic Algorithm and Particle Swarm Optimization Techniques
02.00 pm	EMTP 6040	Optimization of biodiesel production by transesterification of palm oil and evaluation of biodiesel quality
02.20 pm	EMTP 6043	Analysis of Mechanical Properties and Optimization of Laser Beam Welding Parameters on Dissimilar Metal Titanium (Ti6Al4V) and Aluminium (A6061) by Factorial and ANOVA Techniques
02.40 pm	EMTP 6048	High temperature superconducting material based energy storage for solar-wind hybrid generating systems for fluctuating power management
03.00 pm	EMTP 6049	Radial Basis Artificial neural network assisted Multiple regression analysis of a GFRP Turned composites
03.20 pm	EMTP 6056	Experimental Investigation on Heat Transfer Characteristics of Phase Change Composite for Thermal Energy Storage System
03.40 pm	EMTP 6057	Experimental investigation on heat sink of Al2024 alloys with copper composites
04.00 pm	EMTP 6059	A Critical Review of the Wire arc additive manufacturing of stainless steel, properties, defects and quality improvement
04.20 pm	EMTP 6063	Effect of pin diameter and different cooling media on friction stir welding of dissimilar Al-Mg alloys

**Session: ME03**

Date: 20.11.2020

Time: 11.30 am to 04.30 pm

Session In-charge: Mr. D. KESAVAN

Session Link: <http://meet.google.com/fsx-iasb-ext>

Session in-charge Contact Number: +91 97502-86727

Time	Paper ID	Paper Title
11.30 am	EMTP 6064	Influence of Thermal Radiation on Squeezing Flow of Copper-Water Nanofluid between Parallel Plates
11.50 am	EMTP 6068	Cutting Parameter Optimization of CNC Dry Milling Process of AISI 410 and 420 Grade MSS
12.10 pm	EMTP 6072	Characterization of composite laminate with copper and AISI304 made by a diffusion bonding process
12.30 pm	EMTP 6077	Improving themechanical properties of Natural Rubber Composite with Carbon Black(N220)as filler
02.00 pm	EMTP 6078	Analysis of Effects of Machining Parameters on Cutting Force Components in Turning AISI 201 Stainless Steel Using Cemented Carbide Cutting Tool Insert
02.20 pm	EMTP 6080	Multiobjective optimization of performance characteristics in turning of AZ91 Mg alloy using grey relational analysis
02.40 pm	EMTP 6082	Implementation of DMAIC methodology in green sand-casting process
03.00 pm	EMTP 6083	Mechanical Behavior of Silicon Carbide Filled SBR/NBR Blends
03.20 pm	EMTP 6089	Preparation and Study on Thermophysical Properties of Inorganic Salt Hydrate as Energy Storage Materials
03.40 pm	EMTP 6090	Vibration Analysis of the Power Loom
04.00 pm	EMTP 6093	Real-time defect detection in 3D printing using Machine Learning
04.20 pm	EMTP 6094	Review on State of the Art Techniques used for the In-Situ Monitoring of Powder Bed Fusion

**Session: PH02**

Date: 21.11.2020

Time: 11.00 am to 04.00 pm

Session In-charge: Ms. S. DEVI

Session Link: <https://meet.google.com/yha-zgjf-cmp>

Session in-charge Contact Number: + 91 90037-45669

Time	Paper ID	Paper Title
11.00 am	EMTP 7015	Structural and Electronic Property of $\text{AlPO}_4$ Modified $\text{LiMn}_2\text{O}_4$ Material for Li-ion Battery Application
11.20 am	EMTP 7034	Formation and photoluminescence of ZnS:Tb nanoparticles stabilized by polyethylene glycol
11.40 am	EMTP 7056	Growth, Mechanical, Thermal and Nonlinear optical Properties of Magnesium doped Ninhydrin crystals
12.00 noon	EMTP 7065	An approach to the growth of calcium manganese hydrogen phosphate( $\text{CaMnHPO}_4$ ) single crystals (in-vitro study-I) in water glass medium at room temperature and its characterization studies
12.20 pm	EMTP 7081	Potato peel waste as reductant for the biogenesis of gold and silver ultrafine particles.
12.40 pm	EMTP 7084	Flexible Bandpass Filter with Silver Conductive Layer For GPS, ISM, PCS, LTE and WLAN applications
02.00 pm	EMTP 7087	Synthesis and Optical Properties of Ternary $\text{TeO}_2$ - $\text{Bi}_2\text{O}_3$ - $\text{Na}_2\text{O}$ Glass System
02.20 pm	EMTP 7091	Composition tailored isotropic and anisotropic Wet Etching of Glass
02.40 pm	EMTP 8003	Design and simulation of stacked PVDF layers with ZnO for piezoelectric nanodevices
03.00 pm	EMTP 8008	Efficient Stable-Width Adder-Sapling Strategy using Brent Kung Adder
03.20 pm	EMTP 8017	Effect of bath temperature on Electrodeposited Nickel Manganese magnetic thin films
03.40 pm	EMTP 8035	A Surface Micromachining: HNA Etchant for Stiction-free Release of Micro and Nanomechanical Structures

**Session: CH03**

Date: 21.11.2020

Time: 11.00 am to 03.20 pm

Session In-charge: Mr. M. GOPI

Session Link: <https://meet.google.com/skf-ogsp-azy>

Session in-charge Contact Number: +91 99431-51117

Time	Paper ID	Paper Title
11.00 am	EMTP 7094	Enhancement of mass transfer coefficient by using of single pentagonal plate as turbulence promoter in circular conduit
11.20 am	EMTP 7096	Decolourization of Eosin Yellow (EY) dye using a variety of Brown Algae
11.40 am	EMTP 8012	Anticorrosion activities of polymethacrylic acid and grafted/modified polymethacrylic acid on pure aluminium in acid medium
12.00 noon	EMTP 8013	Ultraviolet light induced dye degradation of methylene blue in the presence of photocatalytic CdSe and ZnSe Nanoparticles
12.20 pm	EMTP 8018	Green synthesis of iron nanoparticles by green tea and black tea leaves extract
12.40 pm	EMTP 8045	Removal of Hexavalent Chromium-Industry treated water and Wastewater: A Review
02.00 pm	EMTP 8047	Design, Synthesis, characterization and biological evaluation of some 2-(E)-(N-(azobenzyl)-4-iminoethan-1-yl)-10H-phenothiazines
02.20 pm	EMTP 8058	Novel Schiff base Synthesis of E-N-(1-(1H-phenothiazin-2yl)-ethylidene)-3-((E)-(2-phenylhydrazono) methyl) aniline "Turn-on" fluorescent chemosensor for sensitivity and selectivity of detection of Cr 3+ and Pb 2+
02.40 pm	EMTP 8064	Novel Synthesis, spectral characterisation and DFT calculation of (3,4-bis((E)-(substituted-dichlorobenzylidene)amino) phenyl) (phenyl) methanone derivatives
03.00 pm	EMTP 8065	Removal of manganese from synthetic waste waters with Parthenium Hysteroporos bud and leaf powder and optimization using Artificial Neural Networks and Response Surface Methodology

**Session: CE02**

Date: 21.11.2020

Time: 11.00 am to 04.00 pm

Session In-charge: Mr. T.C.R. DINESH

Session Link: <https://meet.google.com/uko-vbia-htn>

Session in-charge Contact Number: +91 95668-59797

Time	Paper ID	Paper Title
11.00 am	EMTP 6058	Effect of Aluminium Sulfate $Al_2(SO_4)_3$ Treatment on Paper Waste as Fine Aggregate Partial Replacement for Lightweight Cement Mortar
11.20 am	EMTP 6073	Lean construction analysis of concrete pouring process using value stream mapping and Arena based simulation model
11.40 am	EMTP 6084	Studies on effective utilization of Citrus Maxima fibers based PVC composites
12.00 noon	EMTP 6085	An Investigational Study on Properties of Concrete Produced With Industrial waste Red Mud
12.20 pm	EMTP 6088	Selection and Implementation of Green Materials for the Sustainable Development of a Residential Layout
12.40 pm	EMTP 6099	Heat Transfer Simulation across a Building Insulated With Foam Concrete Wall Cladding
02.00 pm	EMTP 7000	A Review on the Use of Ferrocement with Stainless Steel Mesh as a Rehabilitation Technique
02.20 pm	EMTP 7011	A Modified Particle Swarm Optimization for risk assessment and claim management in Engineering Procurement Construction projects
02.40 pm	EMTP 7014	Effect of High-Temperature on the Mechanical and Durability Behaviour of Concrete
03.00 pm	EMTP 7041	Emphasis on Environmental Issues and Causes with Cement-Importance of developing Geopolymer Concrete in the present Scenario
03.20 pm	EMTP 7043	Utilization of Waste Printed Circuit Board Powder in Concrete over Conventional Concrete
03.40 pm	EMTP 7044	Performance of Carbon Fibre Concrete Subject to Fire

**Session: CE03**

Date: 21.11.2020

Time: 11.00 am to 04.00 pm

Session In-charge: Mr. M. GOKUL

Session Link: <http://meet.google.com/smy-mtyc-oak>

Session in-charge Contact Number: +91 95782-64278

Time	Paper ID	Paper Title
11.00 am	EMTP 7057	Use of recycled concrete aggregate and granulated blast furnace slag in self-compacting concrete
11.20 am	EMTP 7059	Mechanical and durability performance of carbon nanotubes (CNTs) and nanosilica (NS) admixed cement mortar
11.40 am	EMTP 7074	Influence of Waste Copper Slag on flexural strength properties of Self Compacting Concrete
12.00 noon	EMTP 7079	Energy Recovery from Waste Water Treatment Plant Sludge
12.20 pm	EMTP 7088	Investigations on effect of different fibers on the properties of Engineered Cementitious Composites
12.40 pm	EMTP 8011	Mechanical and sorptivity characteristics of concrete modified with wollastonite and waste granite fine
02.00 pm	EMTP 8021	Analyzing Different Configurations of Variable Angle Diagrid Structures
02.20 pm	EMTP 8027	Pozzolonic Activity and Strength Activity Index of Bagasse Ash and Fly Ash Blended Cement Mortar
02.40 pm	EMTP 8033	Effect of Elevated Temperatures on the Flexural Strength of Crushed Rock Dust Concrete
03.00 pm	EMTP 8034	Impact of recycled concrete aggregate on mechanical and durability properties of concrete paver blocks
03.20 pm	EMTP 8038	Flexural and Shear Performance of HFRC Beams
03.40 pm	EMTP 8059	Structural grade concrete containing expanded polystyrene beads with different particle distributions of normal weight aggregate

**Session: ME04**

Date: 21.11.2020

Time: 11.00 am to 04.00 pm

Session In-charge: Dr. A. THIRUMOORTHY

Session Link: <https://meet.google.com/awr-hvxn-six>

Session in-charge Contact Number: +91 96885-12749

Time	Paper ID	Paper Title
11.00 am	EMTP 7004	Design and Development of Suspension System for Power Generation
11.20 am	EMTP 7023	Thermal analysis on heat sink made up of aluminium alloys with copper compositions
11.40 am	EMTP 7027	Design and analysis of a smart-attachment to jacket and helmet used by two-wheeler riders using Peltier-module
12.00 noon	EMTP 7032	An Investigation of CdSe Thin Film for Photovoltaic Properties under Different Annealing Temperature
12.20 pm	EMTP 7035	Development of Semi-Automated Sowing Machine for Multiple Crops
12.40 pm	EMTP 7037	Experimental Investigation and Dimensional Analysis Of Friction Drilled Hole On 6082 Aluminium Pipe Using Hardened M2 Center Drill
02.00 pm	EMTP 7049	Effect of Heat Treatment on Hardness and Toughness of EN8 Steel
02.20 pm	EMTP 7052	Microstructure and Mechanical Properties of Oxide Particulates Reinforced PMCs
02.40 pm	EMTP 7053	Analysis of (Al <sub>2</sub> O <sub>3</sub> , CuO and TiO <sub>2</sub> )/Water at different concentration and Their Effect on Various Output Parameters during Machining Process
03.00 pm	EMTP 7055	Integration of value stream mapping with Taguchi's orthogonal array to improve productivity and quality: A case study of SSE
03.20 pm	EMTP 7058	Dry sliding wear behaviour of micro and nano High Entropy Fe-Cr slag particulates reinforced AA 7075 composites
03.40 pm	EMTP 7060	Optimization of Coil Spring by Finite Element Analysis Method of Automobile Suspension System Using Different Materials

**Session: ME05**

Date: 21.11.2020

Time: 11.00 am to 04.00 pm

Session In-charge: Mr. S. ARUNKUMAR

Session Link: <http://meet.google.com/gri-tpsm-bkk>

Session in-charge Contact Number: +91 90037-05759

Time	Paper ID	Paper Title
11.00 am	EMTP 7063	Effect of Brachyura Shell Particles on Glass Fibre Reinforced Epoxy Polymer Composite
11.20 am	EMTP 7066	Observer Design for Liquid Composite Molding
11.40 am	EMTP 7075	A Compact Low Frequency Dual Band Liquid Crystal Polymer Antenna for VHF and UHF band applications
12.00 noon	EMTP 7082	Fabrication and Characterization of Dye Sensitized Solar Cell with ZnO Nanoflowers as Photoelectrode
12.20 pm	EMTP 7089	Prediction of influence of Co-Cr-Mo alloy coating on wear rate of Aluminium with HCl solution
12.40 pm	EMTP 7092	Physio-Chemical Study of Traditional Lubricant SAE20W40 and Virgin Coconut Oil using TiO <sub>2</sub> Nano-Additives
02.00 pm	EMTP 8001	Stress Analysis of Riveted and Bolted Joints using Analytical and Experimental Approach
02.20 pm	EMTP 8002	Effect of Hardfacing on Wear and Corrossion Performance of Various Ferrous Welded Mild Steels-EN 8 EN 9 EN 24
02.40 pm	EMTP 8005	Influence of Edge and Corner Cracks on the Impact and Bending Behavior of Spring Steel
03.00 pm	EMTP 8007	Numerical Investigation of Heat Transfer and Pressure Drop for Cooling of Microchannel Heat Sink Using MWCNT-CuO-Water Hybrid Nanofluid with Different Mixture Ratio
03.20 pm	EMTP 8014	Design, Fabrication and Performance Analysis of Mini Ball Miller
03.40 pm	EMTP 8016	Preparation of Super-hydrophobic Textures by Using Nanosecond Pulsed Laser



**Session: ME06**

Date: 21.11.2020

Time: 11.00 am to 04.00 pm

Session In-charge: Mr. R. PRAKASH

Session Link: <https://meet.google.com/scw-wsxn-ifp>

Session in-charge Contact Number: +91 88830-93959

Time	Paper ID	Paper Title
11.00 am	EMTP 8026	Modeling and Prediction of Die Sinking EDM Process Parameters for A6061/6%B4C Metal Matrix Composite Material
11.20 am	EMTP 8028	Experimental study on thermal analysis of helical coil heat exchanger using Green synthesis silver nanofluid
11.40 am	EMTP 8031	Numerical analysis of Engine Inlet Fan Blades with different Materials
12.00 noon	EMTP 8039	Effect of Shoulder Diameter on Bobbin Tool Friction Stir Welding of AA 6061-T6 alloy
12.20 pm	EMTP 8044	Advancements in Emerging Superlubricity: A Review of The Atomistic Models, Simulation Techniques and Their Applications To Explore The State of Ultra-Low Friction
12.40 pm	EMTP 8048	Assessment of Specific Cutting Coefficient (SCC) in Drilling of Cenosphere/Epoxy Syntactic Foams
02.00 pm	EMTP 8049	Experimental Analysis of CI Engine using Zirconia Ceramic Powder Coated Piston fuelled with Karanja Biodiesel
02.20 pm	EMTP 8052	Estimation of stress and deformation on steel coil holder fixtures using finite element analysis
02.40 pm	EMTP 8054	Algorithms For Sorting And Recognizing Of Undercut Features In Plastic Products
03.00 pm	EMTP 8061	Modeling and Simulation Studies of 100cc Motor Cycle Engine Cylinder with Groove and Perforated Fin Design Using Different Materials
03.20 pm	EMTP 8062	Evaluation and Validation of Mechanical Properties of Steel Strip Embedded Unidirectional E-Glass Fiber Reinforced Hybrid Laminate
03.40 pm	EMTP 8063	Estimation of mechanical parameters for orthodontic retraction loops using finite element analysis