

Second International Conference on
Advances in Physical Sciences and Materials 2021 (ICAPSM 2021)

17-18, August 2021 | Coimbatore, India | www.icapsm.com

Program Schedule

Date	Time	Event
17.08.2021	09.45 am to 10.15 am	Inaugural Function Google meet link: meet.google.com/vsh-uyqu-ucb
17.08.2021	10.15 am	Keynote : Dr. R N Patel, NIT Raipur, India Google meet link: meet.google.com/vsh-uyqu-ucb
17.08.2021	11.00 am to 05.20 pm	Session : PH01(Online)
		Session : PH02(online)
		Session : MA01(online)
		Session : ME01(online)
		Session : ME02(online)
		Session : ACM01(online)
		Session : CE01(online)
		Session : CS01(online)
		Session : EE01(online)
18.08.2021	11.00 am to 05.15 pm	Session : PH03(Online)
		Session : PH04(online)
		Session : MA02(online)
		Session : ME03(online)
		Session : ME04(online)
		Session : EC01(online)
		Session : CE02(online)
		Session : IC01(online)
		Session : ME05(online)
18.08.2021	05.15 pm	Valedictory Function

CH - Applied Chemistry
 CE - Civil Engineering
 MA - Applied Mathematics
 CS - Computer Science & Engineering
 ACM - Applied Chemistry & Mathematics

PH - Applied Physics
 ME - Mechanical Engineering
 EC - Electronics Engineering
 EE - Electrical Engineering
 IC - Information & Communication System

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 30 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 chairs for presentation related queries.
9. If any problem connecting to session, please text to the respective session In-Charges (Or) ICAPSM Whatsapp group during presentation date(s).

Session: PH01

Date: 17.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. Ramya Muthusamy

Session in-charge Contact Number:

Google Meet ID/Link: <https://meet.google.com/ibv-dabt-ner>

Time	Paper ID	Paper Title
11.00 am	PSM 2007	Neural network approach for faster optical properties predictions for different PCF designs
11.20 am	PSM 2038	Characterization of L-Alanine Doped Ammonium Dihydrogen Phosphate
11.40 am	PSM 2061	Some properties of germanene nanoribbons when adsorption of NH ₃ in the external field
12.00 noon	PSM 2064	Conduction mechanism in (ZnO/PVC) polymer nanocomposite
12.20 pm	PSM 2066	Structural, morphological and thermal analysis of pure and doped (Ho/Nd)-BFO multiferroics
12.40 pm	PSM 2070	Analysis of thermoluminescent of borate glass by computerized glow curve deconvolution in the framework of kinetic formalism
02.00 pm	PSM 2075	A comparative study of the dosimetric impact on IMRT planning with VMAT plans using a varying number of arcs in prostate cancer
02.20 pm	PSM 2078	DFT analysis of Thymine adsorption on Ti doped graphene for biosensor applications
02.40 pm	PSM 2083	Sleep quality assessment by parameter optimization
03.00 pm	PSM 2084	First-principles calculations of electronic and optical properties in the bulk and on the (001) surface of CsPbCl ₃
03.20 pm	PSM 3000	Influence of trap densities in ITO thin film on the optical, electrical, and surface plasmon resonance properties
03.40 pm	PSM 3020	Effect of temperature on mixing behavior and stability of liquid Al-Fe alloys
04.00 pm	PSM 3037	Surface Temperature Distribution Aluminum Block with Cone Tube Profile Calculated Using ANSYS Fluent
04.20 pm	PSM 3041	Sexual health and quality of life: Study on prostate cancer patients treated with modern 6MV X-ray radiation therapy
04.40 pm	PSM 3082	First principles band structure investigation of cubic spinel CuMn ₂ Te ₄ compound for thermoelectric applications
05.00 pm	PSM 3083	Electric Field Dependent Textural Variation inside the Liquid Crystal Droplets with Homeotropic Alignment

Session: PH02

Date: 17.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. G. Selvakumar

Session in-charge Contact Number: +91 80568 21656

Google Meet ID/Link: <https://meet.google.com/mcx-pfyi-roy>

Time	Paper ID	Paper Title
11.00 am	PSM 3084	Control over Vertical Orientation of Liquid Crystal using Spin Coated Silica Nanoparticles Layer on Conductive Substrates
11.20 am	PSM 4012	Computational Investigation of Micro-channel Heat Sink with Rectangular Shape Obstacles
11.40 am	PSM 4048	A analytical study of wind speed distribution at Government First Grade College premises in Hosadurga, India
12.00 noon	PSM 4058	Doping two boron atoms in germanene nanoribbons in an external electric field
12.20 pm	PSM 5080	Evaporative deposition of SiO ₂ nanoparticles multilayer on ITO substrates and application for vertical alignment of liquid crystals - Effect of dichroic dye
12.40 pm	PSM 4018	Advances in low-cost and nontoxic materials based solar cell devices
02.00 pm	PSM 4072	Correlation among the oxide ion polarizability, optical basicity and interaction parameter in Gd ³⁺ ions doped oxyhalide borate glasses
02.20 pm	PSM 5038	A Transient Analysis for Amorphous Photoconductors
02.40 pm	PSM 5028	Effect of Structural Changes on the Electrical Properties of Sol-gel derived Iron Doped Barium Titanate
03.00 pm	PSM 2088	Effect of electrical poling on the structural, dielectric and photoluminescence properties of small concentration of Ho ³⁺ substituted NBT
03.20 pm	PSM 4041	Cosmic inflation in some viable models of f(R) modified gravity of polynomial- exponential form
03.40 pm	PSM 2045	Synthesis of Fe:Ag nanocomposites and their anti-bacterial activities
04.00 pm	PSM 4008	Optical klystron undulator radiation with electromagnetic wave undulator
04.20 pm	PSM 6035	Significantly reduced leakage current density in Mn-doped BiFeO ₃ thin films deposited using spin coating technique
04.40 pm	PSM 3073	Application of nano molybdenum trioxide in thermal storage and photocatalysis
05.00 pm	PSM 5052	The structure of liquid aluminosilicate under Al ₂ O ₃ content: simplexes and shell core analyses

Session: MA01

Date: 17.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. Mukta Jagdish

Session in-charge Contact Number:

Google Meet ID/Link: <https://meet.google.com/hyy-fxzv-znd>

Time	Paper ID	Paper Title
11.00 am	PSM 2014	Discrete Eigenvalues of a 2 x 2 Operator Matrix
11.20 am	PSM 2015	On the solvability of a boundary value problem for a quasilinear equation of mixed type with two degeneration lines
11.40 am	PSM 2016	On the numerical range of a Friedrichs model with rank two perturbation: Threshold analysis technique
12.00 noon	PSM 2019	Essential spectrum of a family of 3 x 3 operator matrices: Location of the branches
12.20 pm	PSM 2027	Program for Solving Assignment Problems and Its Application in Lecturer Resources Allocation
12.40 pm	PSM 2062	Convergence of eigenfunction expansions for exural gravity waves in infinite water depth
02.00 pm	PSM 2079	Spectrum of a three-particle model Hamiltonian on a one-dimensional lattice with non-local potentials
02.20 pm	PSM 2085	On exponential Diophantine equation $17x + 83y = z^2$ and $29x + 71y = z^2$
02.40 pm	PSM 2089	The existence of eigenvalues of Schrödinger operator on a lattice in the gap of the essential spectrum
03.00 pm	PSM 2099	Invariant subspaces and eigenvalues of the Schrödinger operator of two fermions
03.20 pm	PSM 3001	Spectral relations for a 4 X 4 block operator matrix
03.40 pm	PSM 3009	A New Technique for solving Picture Fuzzy Differential Equation
04.00 pm	PSM 3016	$Z\alpha$ Open and Closed Mappings in Double Fuzzy Topological Spaces
04.20 pm	PSM 3017	Bound states of a system of two bosons with a spherically potential on a lattice
04.40 pm	PSM 3019	Continuous Maps Via $\{-$ fuzzy $\}$ -semiopen Sets in \wedge Sostak's Fuzzy Topological Spaces
05.00 pm	PSM 3030	Soft e-Separation Axioms in Neutrosophic soft Topological Spaces

Session: ME01

Date: 17.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. P. Senthilkumar

Session in-charge Contact Number: +91 98944 06737

Google Meet ID/Link: <https://meet.google.com/tjc-mwso-ith>

Time	Paper ID	Paper Title
11.00 am	PSM 2026	Analysis of critical issues in retrofitting of ICE vehicles
11.20 am	PSM 2031	An experimental study of De-Icing property using Reduced Graphene Oxide - Boron Nitride Nano Powder in CFRP
11.40 am	PSM 2034	Numerical Investigation of M21 Aerofoil and Effect of Plain Flapper at Various Angle of Attack
12.00 noon	PSM 2055	Industry 4.0: Concept, Technologies and Challenges
12.20 pm	PSM 2071	Traceable and Intelligent Supply Chain based on Blockchain and Artificial Intelligence
12.40 pm	PSM 2072	Effect of Al ₂ O ₃ -MoS ₂ on hardness and wear loss of Al-6061 hybrid metal matrix composite
02.00 pm	PSM 2092	Influence of injection pressure on performance and emission characteristics of single cylinder RCCI engine fuelled with ethanol gasoline and diesel biodiesel blends
02.20 pm	PSM 3012	Effect of loading rate on tensile and fracture behavior of AA2050-T84 alloy at high temperature
02.40 pm	PSM 3014	Influence of Contact Area on Tribo Response of Al 6061 in Ambient and Vacuum Environment
03.00 pm	PSM 3035	A Critical Study on Computation of Cutting Forces in Metal Cutting
03.20 pm	PSM 3036	Numerical Analysis of Picking Mechanism of Power Loom with use of Lagranges's Method
03.40 pm	PSM 3061	Design and Development of a Three Component Milling Dynamometer
04.00 pm	PSM 3080	Fractographic Analysis of Mechanical Properties of Microalloyed Steel
04.20 pm	PSM 3091	Experimental analysis of microstructure and mechanical characteristics of LM6 & fly ash composite through STIR casting method
04.40 pm	PSM 6058	Study of expansive soil stabilized with agricultural waste
05.00 pm	PSM 6059	Stabilization of expansive soil by using industrial waste

Session: ME02

Date: 17.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Prof. A. K. Nachimuthu

Session in-charge Contact Number: +91 75028 23283

Google Meet ID/Link: <https://meet.google.com/pmu-ndzw-vvu>

Time	Paper ID	Paper Title
11.00 am	PSM 4042	Influence of hybrid pin profile on microstructural and mechanical properties of Al/SiC graded composites produced by friction stir processing
11.20 am	PSM 4067	Sintering sensitivity of aluminium metal matrix composites developed through powder metallurgy proposed technique- a review
11.40 am	PSM 4068	Study on notch tensile properties of Magnetically Impelled Arc Butt (MIAB) welded carbon steel tubes
12.00 noon	PSM 4081	Autonomous mobile robot for visual inspection of MEP provisions
12.20 pm	PSM 5005	Ex Situ Tribological and Electro-chemical analysis of Aluminium
12.40 pm	PSM 5014	Comparison of Sugeno-Type and Mamdani-Type Fuzzy Inference Systems for end milling process
02.00 pm	PSM 5031	Optimization of multiple quality characteristics for end milling under dry cutting environment using desirability function
02.20 pm	PSM 5069	Studies and Practice of Geometrical Test Procedures & Reconditioning of CNC Lathe Machine Tool
02.40 pm	PSM 5002	Design of 3D Volumetric Display
03.00 pm	PSM 5019	Application of Taguchi and RSM Parameters On Surface Roughness and Material Removal Rate of AA6082T6
03.20 pm	PSM 5077	Analysis of parallel flow heat exchanger using SiO ₂ nanofluids in the laminar flow region
03.40 pm	PSM 3066	Thermal Properties of Epoxy Nanoclay Composite Materials
04.00 pm	PSM 5029	Nonlinear Finite Element Analysis of Lumbar Spine under Mechanical Load
04.20 pm	PSM 4084	Development of an AFO with Dual-material using an FDM Printer
04.40 pm	PSM 5001	Conversion of Internal Combustion Engine Car to Semi-autonomous Electric Car
05.00 pm	PSM 4025	Investigations on the Stability of a Two-Wheeled Vehicle with a Tendency to Topple sideways

Session: ACM01

Date: 17.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Prof. S. Shamsul Hudha

Session in-charge Contact Number: +91 98948 31088

Google Meet ID/Link: <https://meet.google.com/rbi-fcou-myy>

Time	Paper ID	Paper Title
11.00 am	PSM 2095	Recent Advances in Tin-based Hybrid Organic-Inorganic PSCs: Additives for Improved Stability and Performance
11.20 am	PSM 3057	Green Synthesis of Silver Nanoparticles using Vitex Negundo Extracts and their Application in the Effluent Treatment of Cracker Industries
11.40 am	PSM 3077	Characterization of potential probiotics isolated from fermented under-utilized Chrysophyllum albidum Linn kernels using microbiological, biochemical and molecular techniques
12.00 noon	PSM 4023	Direct Sunlight driven photocatalytic degradation of hazardous organic dyes using TiO ₂ -NiO nanocomposite p-n junction
12.20 pm	PSM 6039	Efficient degradation of picric acid using rGO-MnO ₂ hybrid nanocomposite under different light conditions
12.40 pm	PSM 5051	Biomass gasification of carbonaceous feedstock for syngas production: A Review
02.00 pm	PSM 5048	Overview and methods in Enhanced Oil Recovery
02.20 pm	PSM 6006	Preparation and application of low-cost ceramic membranes for separation of oil-water emulsion
02.40 pm	PSM 5099	Theoretical assessment for the mixing properties of AlMg liquid alloys at 1073K
03.00 pm	PSM 2032	COVID-19: Occupational health and safety for health workers- An Overview
03.20 pm	PSM 6028	CUBIC Z-SUBALGEBRAS IN Z-ALGEBRAS
03.40 pm	PSM 6079	Aluthge Transformation on Class A(k *) Operators
04.00 pm	PSM 6066	Quasi M-Class Ak* Operators and its spectral properties
04.20 pm	PSM 5060	Optimum solution of goal programming problem by modified charnes method
04.40 pm	PSM 6087	New Eccentricity Based Topological Indices of Total Transformation Graphs
05.00 pm	PSM 6086	Properties of nano Δ^* open sets

Session: CE01

Date: 17.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Prof. T. Prakash

Session in-charge Contact Number: +91 75581 14102

Google Meet ID/Link: <https://meet.google.com/ipn-izqd-cfp>

Time	Paper ID	Paper Title
11.00 am	PSM 2050	Assessment of stress state and dynamic characteristics of plane and spatial structure
11.20 am	PSM 2094	Contravariant tensor algebra for anisotropic hyperelasticity
11.40 am	PSM 3005	Analysis and Design of Reinforced Concrete Thin Cylindrical Shell
12.00 noon	PSM 3064	Experimental Investigation on Grades of Cement in the Nominal and Design Concrete Mixes
12.20 pm	PSM 3065	Buckling and Free Vibration Analysis of Laminated Sandwich Beams under Hygrothermal Conditions
12.40 pm	PSM 3088	Structural behaviour of reinforced concrete corroded column
02.00 pm	PSM 4001	Study on different parts of moringa oleifera for treating wastewater
02.20 pm	PSM 4015	Experimental Study on Strengthening of Concrete Cylinders Using GFRP Sheets with Boron Carbide Epoxy Composite
02.40 pm	PSM 4034	Properties and Environmental Features of Bricks Made From Textile Waste Sludge
03.00 pm	PSM 4035	Feasibility Study on Application of Natural Coagulants
03.20 pm	PSM 4049	Geo-environmental analysis of the groundwater quality in the vicinity of textile industrial zone
03.40 pm	PSM 4052	Flexural Strength of Fly ash Brick Masonry Wall with four different bond
04.00 pm	PSM 4054	Effect of reduced graphene oxide nanoparticles as anticorrosion material on mild steel substrate
04.20 pm	PSM 4069	Experimental Investigation On Ferrocement Slab Using Partial Replacement Of Cement By Ceramic Powder
04.40 pm	PSM 4031	Studies on Mechanical properties of High Calcium Fly ash based sustainable Geopolymer concrete
05.00 pm	PSM 3092	Numerical Investigation of Precast Grouted Sleeve Connection under Cyclic Loading Using ABAQUS

Session: CS01

Date: 17.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. Charan Panem

Session in-charge Contact Number: +91 90494 54632

Google Meet ID/Link: <http://meet.google.com/imx-cqvx-dck>

Time	Paper ID	Paper Title
11.00 am	PSM 2030	Generative Adversarial Networks for Facial Image Inpainting and Super-Resolution
11.20 am	PSM 2077	Deep Learnt Features and Machine Learning Classifier for Texture classification
11.40 am	PSM 3078	Vulnerability Recognition and Resurgence in Network based on Prediction Model and Cognitive based Elucidation
12.00 noon	PSM 4004	Applications of Autoencoders along with Deep Learning Techniques to generate Valid Molecules
12.20 pm	PSM 4044	Smart Villages: IoT Technology Based Transformation
12.40 pm	PSM 5075	Diabetic Prediction using Logistic Regression and Random Forest Algorithm
02.00 pm	PSM 5081	Research Trends in IoT based Smart Solution for Plant Leaf Disease Detection and Classification
02.20 pm	PSM 5083	Concentrate development from Litchi Juice and quality evaluation during storage
02.40 pm	PSM 5076	Supervised Machine Learning Techniques for Predicting the Sales of Walmart Store
03.00 pm	PSM 4098	Applying BBRP23 method for secure the data
03.20 pm	PSM 5091	Detection of Epilepsy based on EEG Signals using PCA with ANN Model
03.40 pm	PSM 6023	Umpire Gesture Detection and Recognition using HOG and Non-Linear Support VectorMachine (NL-SVM)Classification of Deep Features in Cricket Videos
04.00 pm	PSM 5018	A Novel Approach for Image Denoising and Performance Analysis using SGO and APSO
04.20 pm	PSM 5025	Determination of physico-chemical parameters of coal mines water samples and their correlation establishment with WQI using python programming
04.40 pm	PSM 6016	Sentiment analysis of Social Media Text-Emoticon Post with Machine learning Models
05.00 pm	PSM 6041	Analysis of machine learning algorithms in brain tumour prediction

Session: EE01

Date: 17.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Prof. K. Sivakumar

Session in-charge Contact Number: +91 97894 89103

Google Meet ID/Link: <https://meet.google.com/vsh-uyqu-uch>

Time	Paper ID	Paper Title
11.00 am	PSM 2028	Computation of time-delay for Delayed Network Controlled Temperature Control System
11.20 am	PSM 2052	Effect of parasitic resistances on CdTe solar cell and validation with datasheet of FS-6450A in Matlab/Simulink
11.40 am	PSM 3044	Development of Fast charging system with ZVS integrated with Fuzzy controller-based Hybrid renewable energy source
12.00 noon	PSM 3059	An Adaptive Frequency PLL Approach for Grid Connected Multifunctional Inverter for Residential Applications
12.20 pm	PSM 3067	Comparative Analysis of Surface Mounted and Interior Permanent Magnet Synchronous Motor for Low rating Power Application
12.40 pm	PSM 3074	Comparative analysis of image processing techniques for obstacle avoidance and path deduction
02.00 pm	PSM 3089	Highly Sensitive Organic Phototransistors Fabricated from PCPDTBT:PCBM Blend
02.20 pm	PSM 3097	A Novel Current Sensor less MPPT based Approach for PV Applications Using PSO Technique
02.40 pm	PSM 4026	Optimal Setting of Interline Power Flow Controller in Deregulated Power Systems Congestion Management by using Artificial Intelligent Controllers
03.00 pm	PSM 4087	Artificial Neural Network Controller Strategy for Improving DC Link Voltage of Grid Connected Hybrid PV-Wind Generation Systems
03.20 pm	PSM 4088	A Novel Fast Hybrid Frequency Domain Approach for Evaluating Harmonic Power Flow in Electricity Networks
03.40 pm	PSM 4093	Optimal value of Economic Load Dispatch using Swarm Algorithm
04.00 pm	PSM 5027	OPTIMAL DESIGN OF SRM FOR EV APPLICATION
04.20 pm	PSM 2091	Dual scaled approach SPR-based PCF RI sensor with ultra-low loss
04.40 pm	PSM 6029	Effect of electromagnetic wave and laser field on conductive tensor in quantum well with infinite potential for the case of electrons – acoustic phonon scattering
05.00 pm	PSM 3023	Comparison of closed loop performance of consistency process dynamics for various PID controller algorithms

Session: PH03

Date: 18.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. Ramya Muthusamy

Session in-charge Contact Number:

Google Meet ID/Link: <https://meet.google.com/ibv-dabt-ner>

Time	Paper ID	Paper Title
11.00 am	PSM 5053	The structural and dynamical properties of aluminosilicate melts: Insight via molecular dynamic simulation
11.20 am	PSM 4078	Design of MoS ₂ /graphene heterostructure thin film sensors for high performance NO ₂ gas sensor application
11.40 am	PSM 3068	EPR study of Mn site substituted Pr based Doped Rare Earth Manganites
12.00 noon	PSM 4076	A theoretical study on photo absorption in silicon decorated boron clusters (B _n Si, n=7-10)
12.20 pm	PSM 5086	Electrochemical Anodization and Characterization of Titanium Oxide Nanotubes for Photo Electrochemical Cells
12.40 pm	PSM 5047	Antisites driven magnetic transition study in La ₂ NiMnO ₆
02.00 pm	PSM 5035	The influence of polymer on optical and thermal properties of nematic liquid crystals
02.20 pm	PSM 4032	Facile Green Synthesis and Characterisation of Gold Nanoparticles using Fenugreek Seeds and Honey
02.40 pm	PSM 6025	Effects of hot carriers of semiconductor magneto-plasmas on real and imaginary parts of Brillouin susceptibility
03.00 pm	PSM 5066	Moisture trajectories during heavy rainfall events using Hybrid Single-Particle Lagrangian Integrated Trajectory (HYSPPLIT) model
03.20 pm	PSM 4019	Evaluation on the Preference of E-Commerce Websites with Analytic Hierarchy Process Model
03.40 pm	PSM 5067	Studies on Structural, optical and Magnetic properties of Yttrium Aluminum Bromate (YAB) Nanomaterials, prepared at high annealing temperature
04.00 pm	PSM 5056	Solution of the Kadomtsev-Petviashvili equation using an improved homotopy perturbation method
04.20 pm	PSM 6072	Effective dielectric properties of Cement/Ba _{0.06} (Na _{0.5} Bi _{0.5}) _{0.94} TiO ₃ composites: A comparative approach
04.40 pm	PSM 3033	On the induced metric of a photon qubit for different points of action in Bloch sphere
05.00 pm	PSM 3042	Design of Magnetic Circuit for Stationary Plasma Thruster

Session: PH04

Date: 18.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. G. Selvakumar

Session in-charge Contact Number: +91 80568 21656

Google Meet ID/Link: <https://meet.google.com/mcx-pfyi-roy>

Time	Paper ID	Paper Title
11.00 am	PSM 5079	DC conductivity studies of iron decorated polypyrrole
11.20 am	PSM 6008	Spectral Studies on Impact of Alkali Perchlorate (Li/Na/K-ClO ₄) Salts on the Properties of PVA-Ag-Cr ³⁺ Polymer Nanocomposite Films
11.40 am	PSM 5044	Investigation of Dielectric properties in tantalum doped AgNbO ₃ ceramic
12.00 noon	PSM 5045	Phenomenological explanation of spontaneous polarisation and onset ferroelectric Phase transition in RbH ₂ AsO ₄ (RDA) crystal
12.20 pm	PSM 6065	Synthesis of Transition Metal Dichalcogenides based hybrid nanostructures by thermal decomposition method
12.40 pm	PSM 6053	A study of indoor radon thoron levels in Jind area of Haryana
02.00 pm	PSM 5078	Study on piezo-electric flapping wing mechanism for bio-inspired micro aerial vehicles
02.20 pm	PSM 6043	Investigation of annealing temperature on the synthesis of zincite doped cobalt ferrite using Rietveld refinement
02.40 pm	PSM 6067	White light emitting dysprosium doped lanthanum oxalate single crystals
03.00 pm	PSM 6061	Synthesis, structural and morphological analysis on Vanadium oxide nanoflakes
03.20 pm	PSM 6077	Single crystal X-ray diffraction, Hirshfeld surface analysis and DFT studies of Bis(L-Serinium) oxalate dihydrate(BLSOD)
03.40 pm	PSM 6071	Synthesis and characterization of nanostructure VO ₂ thin film
04.00 pm	PSM 6012	CoSe ₂ /graphene composite: a low-cost, high performance counter electrode for dye sensitized solar cells
04.20 pm	PSM 3038	Structural analysis on the basis of effect of molybdenum on the Pr ₂ O ₃ doped lead borate glasses series-II
04.40 pm	PSM 6064	Synthesis and characterization of ceria doped zinc ferrite nanopowdered crystallites
05.00 pm	PSM 6052	A Composite of (95%) La ₂ CoMnO ₆ + (5%) Ba _{0.5} Na _{0.5} TiO ₃ : Study of Structural and Dielectric Properties

Session: MA02

Date: 18.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. Mukta Jagdish

Session in-charge Contact Number:

Google Meet ID/Link: <https://meet.google.com/dpw-rftm-xxf>

Time	Paper ID	Paper Title
11.00 am	PSM 3031	A planning analysis to evaluate the possibility of non-coplanar volume modulated arc therapy ncVMAT for loco region radiation therapy of left breast carcinoma
11.20 am	PSM 3053	Z Open Sets and Maps in Nano Bitopological Spaces
11.40 am	PSM 3055	Maps and Homeomorphisms via M-open sets in Neutrosophic soft Topological Spaces
12.00 noon	PSM 4028	Optimizing the Financial Management of Electronic Companies using Goal Programming Model
12.20 pm	PSM 4039	Prediction of Indian GDP Using Grey Forecast Model
12.40 pm	PSM 4077	Numerical Solution of Fourth-Order Boundary Value Problems for Euler–Bernoulli Beam Equation using FDM
02.00 pm	PSM 2090	Classical Fuzzy Retrial Queue With Working Vacation Using Hexagonal Fuzzy Numbers
02.20 pm	PSM 5068	Stability and bifurcations of a discrete-time prey-predator system with constant prey refuge
02.40 pm	PSM 3028	A study on network analysis by navigation of robots using graphical measures to solve the complexity
03.00 pm	PSM 6003	On W_0 and W_2 ϕ -Symmetric Contact Manifold Admitting Quarter-Symmetric Metric Connection
03.20 pm	PSM 4024	First Order Chemical Reaction with OHIC and Viscous Dissipation in MHD Nanofluid Flow over an Exponential Stretching Sheet
03.40 pm	PSM 3027	Justification Of The Parameters Of The Blade Working Body Of The Plowshare That Forms A Longitudinal Bollard Among The Rows Of Cotton
04.00 pm	PSM 4029	MBJ-neutrosophic Ideals of KU-algebras
04.20 pm	PSM 5070	Pythagorean Fuzzy Rough Connected Spaces
04.40 pm	PSM 5012	Calculating Sombor Index of Certain Networks
05.00 pm	PSM 6018	Semigraphs and its a- Domination

Session: ME03

Date: 18.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. P. Senthilkumar

Session in-charge Contact Number: +91 98944 06737

Google Meet ID/Link: <https://meet.google.com/tjc-mwso-ith>

Time	Paper ID	Paper Title
11.00 am	PSM 5082	Martensitic transformation behavior and structural characteristics of annealed Ni-Mn-Sn-Fe-In Heusler alloy
11.20 am	PSM 6021	Evaluation of the mechanical characteristics of hygrothermally aged 2-D basalt-aramid/epoxy hybrid interply composites
11.40 am	PSM 5057	Optimization of micro EDM drilling on Titanium alloy (Ti-6Al-4V) using RSM and Neural Network
12.00 noon	PSM 5000	Conversion of Two-Stroke Vehicle to an Electric Vehicle
12.20 pm	PSM 4096	Morphology and wear of high chromium and austempered ductile iron balls as grinding media in ball mills
12.40 pm	PSM 5040	An experimental study on the effect of various stack materials on thermoacoustic refrigeration effect
02.00 pm	PSM 5021	Effect of addition of bio-additive clove oil to ternary fuel blends (Diesel-Biodiesel- Ethanol) on compression ignition engine
02.20 pm	PSM 3071	Foot Trajectory Analysis of a Robotic leg
02.40 pm	PSM 4053	Analysis Of Mechanical And Metallurgical Properties Of Al-Sio2 Composite Material
03.00 pm	PSM 4074	Computational design optimization of industrial single piece ball valve to enhance the flow performance
03.20 pm	PSM 5071	Embodiment design of a soil bin for soil-tool interaction study
03.40 pm	PSM 5041	Analysis of Laser beam welding of SS316L butt joints using Design of Experiments
04.00 pm	PSM 6078	Surface Roughness Prediction using Machine Learning Algorithms while Turning under Different Lubrication Conditions
04.20 pm	PSM 6084	Optimization of Insulated Gate Bipolar Transistor System to Maximize Heat Dissipation
04.40 pm	PSM 4027	The effect of temperature and pressure on nitrogen adsorption in amorphous silica
05.00 pm	PSM 3072	Development of Ultra Strength Concrete

Session: ME04

Date: 18.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Prof. A. K. Nachimuthu

Session in-charge Contact Number: +91 75028 23283

Google Meet ID/Link: <https://meet.google.com/pmu-ndzw-vvu>

Time	Paper ID	Paper Title
11.00 am	PSM 5063	Design, Optimization And Validation Of Conformal Cooling Technique For Additively Manufactured Mold Insert
11.20 am	PSM 5064	Thermal Modelling For Laser Machining Of SS316 L, Inconel 718 and Ti6Al4V
11.40 am	PSM 6032	Experimental investigation on the impact of evaporative cooling based battery thermal management system on charging process of valve regulated lead acid batteries in E-bike
12.00 noon	PSM 5010	Design and Control of an Automated SCARA Robotic Arm with a Pneumatic Soft Gripper
12.20 pm	PSM 5024	Improving the efficiency of solar drying unit with PCM(Paraffin wax)
12.40 pm	PSM 3090	Relative Stress Analysis of Gas Turbine Blade for Various Alloying Materials
02.00 pm	PSM 5065	Experimental analysis of the behaviour of different types of joints in the steel structure model subjected to earthquake loading
02.20 pm	PSM 5094	Studies on Pyrolysis Oil derived from waste Tires as Fuel for Diesel Engine
02.40 pm	PSM 6056	Effect of the Parameters in Electromagnetic Field Assisted Electric Discharge Machining
03.00 pm	PSM 5061	Finite Element Analysis of Porous Ti-6Al-4V Alloy Structures for Biomedical Applications
03.20 pm	PSM 5013	Design and fabrication of solar powered bicycle
03.40 pm	PSM 6024	Design and Analysis of AC14 Ship Anchor
04.00 pm	PSM 6076	Design and analysis of building diagnostics robot
04.20 pm	PSM 5030	Estimation of stress and strain of knee joint using finite element analysis
04.40 pm	PSM 6085	A Review On Lightweight Metal Component Forming And Its Application
05.00 pm	PSM 4075	Fixed and Base Isolated Framed Structures: A Comparative Study

Session: EC01

Date: 18.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Dr. Charan Panem

Session in-charge Contact Number: +91 90494 54632

Google Meet ID/Link: <http://meet.google.com/imx-cqvx-dck>

Time	Paper ID	Paper Title
11.00 am	PSM 2046	Hybrid UNet Architecture based on Residual Learning of Fundus Images for Retinal Vessel Segmentation
11.20 am	PSM 2060	Basic simulation studies on 60 GHz wireless technology employing QAM modulation
11.40 am	PSM 3003	Metamaterial inspired multi-split square shaped printed antenna for WLAN applications
12.00 noon	PSM 3006	Hand Cricket game application using Computer Vision
12.20 pm	PSM 3013	Novel RF energy harvesting using Rectenna
12.40 pm	PSM 3034	Metamaterial Based Multiband Microstrip Patch Antenna for 5G Wireless Technology-enabled IoT Devices and its applications
02.00 pm	PSM 5006	Multiview Running and Walking Gait Analysis using the First and Third Person Data
02.20 pm	PSM 5072	Millimeter Wave MIMO out Door Channel Estimation and Precoding
02.40 pm	PSM 5058	Development of Test Automation Framework for printed circuit board assembly
03.00 pm	PSM 5043	Thermal and Electrical Performance of AlGaAs/GaAs based HEMT device on SiC substrate
03.20 pm	PSM 5017	Optic Disc Segmentation and Low Feature Extraction for the Classification of Diabetic Retinopathy
03.40 pm	PSM 5039	Study on Textile based Antennas for Body Area Wireless Local Area Networks
04.00 pm	PSM 6046	Iterated extended Kalman filter based state estimation of diode circuit
04.20 pm	PSM 4083	Improved fuzzy logic controller for cane juice extraction
04.40 pm	PSM 4095	Texture Feature Extraction of Lumbar Spine Trabecular Bone Radiograph Image using Laplacian of Gaussian Filter with KNN Classification to Diagnose Osteoporosis
05.00 pm	PSM 3004	Robust DWT-SVD Domain Image Watermarking based on Iterative Blending

Session: CE02

Date: 18.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Prof. T. Prakash

Session in-charge Contact Number: +91 75581 14102

Google Meet ID/Link: <https://meet.google.com/ipn-izqd-cfp>

Time	Paper ID	Paper Title
11.00 am	PSM 4051	Numerical Analysis of Soil Reinforcement using Geocell infilled with Quarry Dust Powder
11.20 am	PSM 2073	Predicting the peak structural displacement preventing pounding of buildings during earthquakes
11.40 am	PSM 5016	Estimation of Temporal R-factor Based on Monthly Precipitation Data
12.00 noon	PSM 5008	Strengthening of concrete square column using FRP composites
12.20 pm	PSM 6007	Impact of dyeing industry effluents on geotechnical properties of soil
12.40 pm	PSM 5042	Simulation-Based Comparative Study on Energy Efficiency Criteria for LEED and BREEAM Systems
02.00 pm	PSM 5023	Experimental investigation of strength characteristics of concrete by adding nano silica, glass fibre and flyash
02.20 pm	PSM 4047	Effect of Cover on the Performance of Self-Compacting Concrete under Elevated Temperature
02.40 pm	PSM 4057	Mechanical Properties of Polystyrene Light Weight Sustainable Concrete
03.00 pm	PSM 5026	Assessment of Spatial Distribution of Physico-Chemical Parameters of Groundwater around Kodungaiyur Dump yard
03.20 pm	PSM 5034	Experimental Investigation on Sound Absorption Property of a Panel Board Using Maize Stem
03.40 pm	PSM 6075	Factors influencing Risk Perception Skills among Construction Sector Employees – A case study
04.00 pm	PSM 6074	Lifecycle assessment of alkali-activated cement concrete
04.20 pm	PSM 3026	Influence of Granite Cutting Waste on Mechanical Properties of Recycled Aggregate Concrete
04.40 pm	PSM 4071	An Experimental Investigation on Concrete with Basalt Rock Fibers
05.00 pm	PSM 6080	Penetration and Strength Analysis of Pervious Concrete

Session: IC01

Date: 18.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Prof. M. Iswarya

Session in-charge Contact Number: +91 85080 32377

Google Meet ID/Link: <https://meet.google.com/pop-zjac-fby>

Time	Paper ID	Paper Title
11.00 am	PSM 6019	The performance of flow field channel in direct methanol fuel cell
11.20 am	PSM 5096	Techno-economic analysis by homer-pro approach of solar on-grid system for Fatehpur-Village, India
11.40 am	PSM 6004	Design and simulation of 60kWp solar on-grid system for rural area in Uttar -Pradesh by "PVsyst"
12.00 noon	PSM 5050	Performance Analysis of Pre-trained Transfer Learning Models for the Classification of the Rolling Bearing Faults
12.20 pm	PSM 3024	Effect of Delay Approximation of various orders on the open loop response of a Delayed Process Model
12.40 pm	PSM 6027	A Competitive Study on MPPT Techniques Employed in Solar PV Systems
02.00 pm	PSM 3032	Internet of Things Enabled Smart Animal Farm Prototype
02.20 pm	PSM 2049	Design of solar powered electric vehicle
02.40 pm	PSM 6065	Synthesis of Transition Metal Dichalcogenides based hybrid nanostructures by thermal decomposition method
03.00 pm	PSM 4089	A Reliable Low Power Multiplier Using Fixed Width Scalable Approximation
03.20 pm	PSM 6026	Comparison of single user with multi user cooperative spectrum sensing for energy detector at Low SNR wall
03.40 pm	PSM 4003	Effects of dielectric substrate material microstrip antenna for limited band applications
04.00 pm	PSM 4056	Virtual Machine Allocation Policy for Load Balancing
04.20 pm	PSM 2012	Probability of Impacting the Students Perception by Use of Social Media in Pandemic -2020
04.40 pm	PSM 6088	The Impact of Weed Growth in Rabi Crop Using Deep Convolutional Neural Networks
05.00 pm	PSM 6051	Classification and feature selection in prediction of diabetes mellitus

Session: ME05

Date: 18.08.2021

Time: 11.00 am to 05.20 pm

Session Chair : Prof. S. Shamsul Hudha

Session in-charge Contact Number: +91 98948 31088

Google Meet ID/Link: <https://meet.google.com/rbi-fcou-myy>

Time	Paper ID	Paper Title
11.00 am	PSM 4007	Modelling the minislump spread of superplasticized PPC paste using Random forest, Decision tree and Multiple linear regression
11.20 am	PSM 2041	Design Optimization of Bullock Cart Yoke
11.40 am	PSM 2056	Rubber tapping machine performance and procedure
12.00 noon	PSM 4017	The algorithm for generating the training set for the problem of elastoplastic deformation of the metal rod
12.20 pm	PSM 6055	An Approach to Predict Stock Prices using Deep Learning Technique
12.40 pm	PSM 6022	Effect of Radiation of Moon on the physical property of Jalkhumbhi (Water hyacinth) Bhasma as a functional nanomaterials for its applications as medicine and in other areas of Science & Technology
02.00 pm	PSM 6030	Stability of Atangana - Baleanu Fractional Order Differential Equation with Numerical Approximation
02.20 pm	PSM 6060	Analyzing behaviour of a rail wheel assembly with alumino thermite weldment with modal analysis simulations in ANSYS
02.40 pm	PSM 4079	Overview of methods in Oil spill technology
03.00 pm	PSM 3096	Experimental Study OG VCR Engine Performance Analysis Using Python Module
03.20 pm	PSM 6082	Investigation of Adding Different Waste Plastic weight on Mortar Compressive Strength