

2023 Fourth International Conference on  
**Advances in Physical Sciences and Materials (ICAPSM 2023)**

17 - 18, AUGUST 2023 | Coimbatore, India | <http://icapsm.com/>

**Program Schedule**

Date	Time	Event
17.08.2023	09.30 am to 10.00 am	<p style="text-align: center;">Inaugural Function</p> <p>Google meet link: <a href="https://meet.google.com/hne-rjpi-pnb">https://meet.google.com/hne-rjpi-pnb</a></p>
17.08.2023	10.00 am to 11.00 am	<p style="text-align: center;"><b>Keynote #1(ONLINE): Dr. M. Sathish</b>                      Senior Scientist, Electrochemical Power Sources Division, CSIR-Central Electrochemical Research Institute, Karaikudi, Tamil Nadu, INDIA.</p> <p style="text-align: center;"><b>Title: Photocatalytic Hydrogen Production</b></p> <p>Google meet link: <a href="https://meet.google.com/hne-rjpi-pnb">https://meet.google.com/hne-rjpi-pnb</a></p>
		<p style="text-align: center;"><b>Keynote #2(ONLINE): Dr. Dinesh K. Patel</b>                      Project Scientist, Morphing Matter Lab, School of Computer Science's Human-Computer Interaction Institute: Carnegie Mellon University, Pittsburgh, USA</p> <p style="text-align: center;"><b>Title: 3D printing of soft actuators and robots</b></p> <p>Google meet link: <a href="https://meet.google.com/hne-rjpi-pnb">https://meet.google.com/hne-rjpi-pnb</a></p>
	11.10 am to 04.50 pm	Session 1: ICAPSM - PHY (OFFLINE)
		Session 2: AMA01(Online)
		Session 3: CS01(Online)
		Session 4: ME01(Online)
		Session 5: ME02 (Online)
Session 6: MSCE01(Online)		
Session 7: APH01(Online)		

18.08.2023	09.30 am to 10.30 am	<p><b>Keynote #3(ONLINE): Dr. Anbu Sellamuthu Kooduthurai</b> Assistant Professor in Inorganic Chemistry School of Chemistry, University of East Anglia, Norwich Research Park Norwich, UK</p> <p><b>Title: MRI – A Groundbreaking Approach to Medical Imaging</b></p> <p>Google meet link: <a href="https://meet.google.com/hne-riji-pnb">https://meet.google.com/hne-riji-pnb</a></p>
		<p><b>Keynote #4(ONLINE): Dr. Ravi Kant Misra</b> Researcher, School of Engineering and Materials Science Queen Mary University of London, London, GB.</p> <p><b>Title: Perovskite Materials for photovoltaics</b></p> <p>Google meet link: <a href="https://meet.google.com/hne-riji-pnb">https://meet.google.com/hne-riji-pnb</a></p>
	10.30 am to 04.15 pm	Session 8: AMA02(Online)
		Session 9: AMA03(Online)
		Session 10: CS02(Online)
		Session 11: EE01(Online)
		Session 12: EC01(Online)
		Session 13: ME03(Online)

**Notation:**

<b>AMA</b> - Applied Mathematics	<b>CS</b> - Computer Science & Engineering
<b>ME</b> - Mechanical Engineering	<b>MSCE</b> - Materials Science & Chemical Engineering
<b>APH</b> - Applied Physics	<b>EE</b> - Electrical & Electronics Engineering
<b>EC</b> - Electronics & Communication Engineering	

**Note:**

1. Start time given above indicates Indian Standard Time (IST).
2. Presentation will be conducted using Google meet platform.
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 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 coordinators 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 1: ICAPSM-PHY (OFFLINE)

Date: 17.08.2023

Time: 11.10 am to 04.00 pm

### Session Chairs

: Dr. S. Maheswar, CFRD, KPRIET  
Dr. S. Ananth, Physics, KPRIET  
Dr. E. Ranjith Kumar, Physics, KPRIET  
Dr. S. Prabakar, Physics, KPRIET

### Session Coordinator

: M. Shalini / G. Murali Manoj

**Session Coordinator contact No.** : 9698080494 /9600305776

Time	Paper ID	Paper Title	Author(s)
11.10 am	PSM 1272	SRXRF Analysis of Serum of Type 2 Diabetes Mellitus Patients with Controlled Blood Glucose Levels	N Srinivasa Rao, P Sarita and G J Naga Raju
11.30 am	PSM 1317	(Sr, La) Doped PZT / NZFO and lead-free BCZT / NZFO based Magnetolectric Composite	S. Premkumar and V. L. Mathe
11.50 am	PSM 1340	An Intelligent Model to Forecast Blood Brain Barrier Permeability using Graph Neural Networks	T.T.Dhivyaprabha, Jennyfer Susan M B, P.Subashini, Pooja Sri Saraswathi, R.Vijayabhanu
12.10 pm	PSM 1359	Predicting Ethylene Production in Oxidative Coupling of Methane: A Machine Learning Approach	Dhivyaprabha T T, Jennyfer Susan M B, P.Lalitha, Subashini P, Kamilini D and Vijayabhanu
12.30 pm	PSM 1393	Microfluidic Photoelectrochemical CO <sub>2</sub> based reduction using Strontium titanate with Carbon nitride nanosheets	José Carlos Zarate, Jessica Cárdenas Martínez, Thomas Chan, Jose de Jesus Perez Bueno, Srinivas Godavarthi, Kubiak Clifford, Jesus Diaz Real, Goldie oza
12.50 pm	PSM 1486	Deep Eutectic Solvent Assisted Solvothermal Synthesis of Nickel-Iron Layered Double Hydroxides for Hydrogen Evolution Reaction	Thangavelu Kokulnathan, Brahmari Honnappa, Tzyy-Jiann Wang, Kalingarayanpalayam Matheswaran Arun Kumar
02.00 pm	PSM 1389	Analysis of Sinusoidal Response of Electric Network Circuits by Residue Theorem Approach	M. Shanthi, V. Arun, S. K. Prabhakaran
02.20 pm	PSM 1459	Influence of A-Site Rare Earth Cation Substitution on the Structural and Magnetic Properties of nano-crystalline Ln <sub>2</sub> CoMnO <sub>6</sub> (Ln = Pr, Sm, Gd, Ho, Yb)	Ilyas Noor Bhatti, Amantulla Mansuri, Imtiaz Noor Bhatti

02.40 pm	PSM 1561	Removal of Various Dyes Using Metal Oxide Nanoparticles Synthesized by Green Chemistry	Priyankari Bhattacharya, Sathi Banerjee
03.00 pm	PSM 1528	Eco-friendly Piezoelectric Energy Harvester from Crustacean Shells	Ramar Marimuthu, Kesavan Devarayan, Monikandon Sukumaran, Lavanya Maruthu, Mahalakshmi Ramasamy, Sinthiya Muruganatham
03.20 pm	PSM 1605	Design of Body Wearable Antenna for Medical Monitoring Devices	D. Shashi Kumar
03.40 pm	PSM 1367	Effect of Textile Parameters on the Dielectric Properties of Cotton Fabrics	Saranya AS, S.Rathinavel

## Session 2: AMA01 - ONLINE

Date: 17.08.2023

Time: 11.10 am to 05.00 pm

**Special Invitee** : Prof. Karthikeyan K Head/ Maths  
**Session Chairs** : Dr Suriya Uma Devi, Maths, Dr. Subramanian M, Maths  
**Session Coordinator** : Pavalamuthu M  
**Session Coordinator contact No.** : 9500376955

Google meet link: <https://meet.google.com/fox-pjnc-bee>

Time	Paper ID	Paper Title	Author(s)
11.10 am	PSM 1167	Stability analysis of fractional order Holling type II prey predator model with diseased prey	Deepak N P, Muthukumar S, Siva Pradeep M, Nandha Gopal T
11.30 am	PSM 1171	Dynamical behavior of a predator-prey model with incorporating a prey refuge and harvesting in predator	N.Raja, S. Muthukumar, M. Siva Pradeep, N. P. Deepak, and T. Nandha Gopal
11.50 am	PSM 1270	An Automated Method for Detecting Tumor by Neutrosophic Set	Aarthi D, Panimalar A and Santhoshkumar S
12.10 pm	PSM 1274	Performance of an OWC Device Under the Influence of Ocean Currents	Santanu Kumar Dash and Santanu Koley
12.30 pm	PSM 1275	Homotopy Analysis Method and how the choice of Base Functions affect the convergence of Homotopy Series Solution	Subhendu Paul, Santanu Koley
02.00 pm	PSM 1276	On L 1 -Convergence of Modified Complex Trigonometric Sum	Sakshi and Karanvir Singh
02.20 pm	PSM 1277	Wave Interaction with Bottom Standing Breakwater in the Presence of Current	Kailash Chand Swami, Santanu Koley
02.40 pm	PSM 1306	Some fascinating results on power sum	T. Prasanna Kumar, Y. Hari Krishna, J.Peter Praveen, G. Balaji Prakash, C. Narayana, B. Mahaboob
03.00 pm	PSM 1307	A discourse on applications of Linear Algebra	T. Prasanna Kumar, Y. Hari Krishna, G. Balaji Prakash, J.Peter Praveen, Y. Harnath, B. Mahaboob

03.20 pm	PSM 1323	Dynamics of a Crowley-Martin Functional Response Eco-Epidemiological Model with Prey Refuge and Disease in the Prey	Divya A, Sivabalan M, Ashwin A, and Siva Pradeep M
03.40 pm	PSM 1330	Several Matrix Algebra Applications in Linear Regression Analysis, Information Theory, ODE and Geometry	Y. Hari Krishna, G.V. Arunamayi, K. Ramesh Babu, S. Nanda Kishore, M. Rajaiah, B. Mahaboob
04.00 pm	PSM 1342	Connection Between Primitive Pythagorean Triangles and Mersenne Primes	Mita Darbari and Prashans Darbari
04.20 pm	PSM 1540	Non-Contact Kinect-based gender classification based on gait analysis	Anitha Govindhan, Bhargavi Haripriya, Yugendhar and Sivanathan Kandhasamy
04.40 pm	PSM 1705	Magnetic and Electrical Attributes of Strontium Aluminium Hexaferrite	Himani Joshi

### Session 3: CS01 - ONLINE

Date: 17.08.2023

Time: 11.10 am to 04.35 pm

**Special Invitee** : Prof. N. Yuvaraj, Head/CSE  
**Session Chairs** : Dr.Siva Sangari M, CFRD  
**Session Coordinator** : Logitha M  
**Session Coordinator contact No.** : 9789113796

Google meet link: <https://meet.google.com/exy-ihko-cdo>

Time	Paper ID	Paper Title	Author(s)
11.10 am	PSM 1022	A comparative analysis of some recently proposed one- dimensional chaotic maps for IoT Device Data Encryption	Dr. Neeraj Kanwar, Manipal University Jaipur, India
11.30 am	PSM 1159	Efficient Segmentation and 1D-CNN Model Optimization for Recognizing Human Actions with Mobile Sensors	Thyagarajan. K. K, Kalaiarasi. G, Saravanan. P, Balaji. L, Vignesh.T
11.50 am	PSM 1264	Nature inspired optimization with machine learning based water quality index prediction and classification model.	B.Karthikeyan, K.Saipooja, R.Prasannakumar, and G.Bhrathimohan
12.10 pm	PSM 1268	A Comprehensive study of LPWAN, LoRaWAN for IoT: Background, Related Research, Performance, Potential Challenges and Proposed Methodology	Shaista Tarannum, Usha S M
12.30 pm	PSM 1310	Uncovering Anorexia and Depression Symptoms in Social Media Using Fine-Grained Emotional Representations	B.Sreedevi, S. Barathi, Nagaram Ashish, Pokuri Venkata Krishna Vamsi, Patnam Likhit Yadav, G.Revathy & S.Selvi
02.00 pm	PSM 1328	Stellar classification using supervised machine learning	Swathi S, Saranya S, Vijayalakshmi K, Aswini V
02.20 pm	PSM 1348	Deep Learning Model for Brain Tumour Detection	Akash Yadav, Rakesh Kumar, Meenu Gupta
02.40 pm	PSM 1349	A study of supervised Machine Learning Techniques to Predict Cyclone	Jayeeta Ghosh, Piyali De, Sitikantha Chattopadhyay, Subhra Prokash Dutta, Saptarshi Kumar Sarkar

03.00 pm	PSM 1364	Cumulonimbus Cloud Classification using Transfer Learning with AlexNet	Sitikantha Chattopadhyay, Aditya Chowdhury, Subhra Prokash Dutta, Koushik Mukhopadhyay, Jayeeta Ghosh, Piyali De
03.20 pm	PSM 1382	Development of Solar Based Dryer for Grapes Drying using Machine Learning	Sangeetha T, Thangadurai.K, Shankar.M, Jessy Nirmala F, Sanjeevi Kumar M
03.40 pm	PSM 1384	Prediction of Burr Formation in End Micro Milling Using Convolutional Neural Network (CNN) Review	Sainatha Reddy B, Navneet Kaur
04.00 pm	PSM 1385	Smart Mail: Voice based Email System for Blind	P. Ramesh Naidu, D S Sai Jahnavi, Jalpa C J, Leena Jennifer Edwin, Mahathi D N
04.20 pm	PSM 1399	Prediction of Success for Currently Operating Startups	T. SampathKumar, Anugam Saikiran, Irukulla Apoorva, Anugam Uday kiran, Meghana Daddanala, Amogh Varsh Raju
04.40 pm	PSM 1318	Design of Intelligent Wireless Networks for Optimized Spectrum Utilization with Cognitive Radio	D.Nageswari, Dhivya Priya E.L., K.Sumathi, V. Jayaraj, S.Priyatharsini, Saranya R



## Session 4: ME01 - ONLINE

Date: 17.08.2023

Time: 11.10 am to 04.50 pm

**Special Invitee** : Prof. Ramesh Babu S, Head/Mechanical  
**Session Chairs** : Dr. Dharanikumar, Mech, Dr. Sathish, Mech  
**Session Coordinator** : Subitha A  
**Session Coordinator contact No.** : 8122415150

**Google meet link:** <https://meet.google.com/jzy-uebi-juk>

Time	Paper ID	Paper Title	Author(s)
11.10 am	PSM 1018	A Design Framework: Time and Material Optimization in Design for Additive Manufacturing	Prathik A, Vinod Kumar V Meti, Siddhalingeshwar I G, A C Giriyapur
11.30 am	PSM 1028	Parametric Analysis of Pulsed Nanosecond Laser Interaction with Titanium Alloy (Ti-6Al-4V)- Variation of Groove Width and Roughness With LASER Parameters	Ganesh Dongre, Mangesh Chaudhari, Neelesh Sirdeshmukh, Ravi A Raut, Ashay Patil, Dipak Padole, Samrudhi Patil, Sanket Patil, Pranav Nair
11.50 am	PSM 1160	Numerical Investigation of Flow in Vertical Rectangular Channels Equipped with Three Different Obstacles Shape	Sarah Rabeea Nashee, Zainalabden A. Ibrahim, Dhuha J. Kamil
12.10 pm	PSM 1166	An operational analysis and characteristic study of Cylindrical Heat pipe Heat Exchanger	P. Ramkumar, C.M. Vivek, R. Thiyagarajan, S.P. Manikandan
12.30 pm	PSM 1180	Estimate elastic constant of Mild steel plate using welch's periodogram method	Vijaykumar Bhanuse, Jayant V Kulkarni Sanika S Patankar
02.00 pm	PSM 1258	Theoretical study of the law of distribution of non-stationary heat flow in the vertical and horizontal layers of raw cotton stored in in the bunt	Abdusamat Karimov, Ismanov Mukhammadziyo Abdusamat, Baxritdinov Sayfitdin
02.20 pm	PSM 1266	Implementation of Different Weld Schedules Using Programmable Logic Controller in Resistance Spot Welding Machine	Niranjan Sharma K V, Muralidhara, Sandhya D Bhat, Prasad Prabhu, Nirmith R Jain
02.40 pm	PSM 1284	Investigation of Laser Parameters for Nickel (Ni) Cladding on SS316 – An Experimental Approach	Ganesh Dongre, Dhruwa Gokhale, Shantanu Dongardive, Aaryash Dugge, Shreyas Gaikwad and Pratik Garware
03.00 pm	PSM 1288	Collision Avoidance Using Potential Field in KUKA Robotic Arm	Pallavit Kumar Khare, Balaka Biswas, Anuj Gupta

03.20 pm	PSM 1292	Design and Development of 10N Solid Rocket Thruster	Jefran Calvin J, Sanjay V, J Vishnuvardhan Reddy and Vishnu Kumar G C
03.40 pm	PSM 1293	Investigation of Thrust Characteristics on Mini Jet Engine	Meeth Nair, Hemanth Pasumarthi, Saveer Sharda, Vishnu Kumar G C
04.00 pm	PSM 1322	The effect of fuel additives on compression ignition engine performance and exhaust emissions: A Review	Marwah. E. Basas and Rafeq. A. Khalefa
04.20 pm	PSM 1355	Implementation of Value Engineering in the Construction of Industrial Projects	S Satheesh Kumar, V Gowrisankar, V Sasi Kumar
04.40 pm	PSM 1514	Study on Treatment of Oily Waste Water Using Cost Effective Intrinsic Technology	G. Makhishasooravardhini, K. Nisha, S. VijayaShanthy

## Session 5: ME02 - ONLINE

Date: 17.08.2023

Time: 11.10 am to 04.30 pm

**Special Invitee** : Prof. Kiruba Shankar R, Head/ Mechatronics  
**Session Chairs** : Dr Makesh Kumar M, Mech, Dr. S. Gokulkumar, Mech  
**Session Coordinator** : Deepak  
**Session Coordinator contact No.** : 7010395437

Google meet link: <https://meet.google.com/hqk-zusp-ehq>

Time	Paper ID	Paper Title	Author(s)
11.10 am	PSM 1331	A Treatise on Field Extensions and Algebraic Extensions	Y. Hari Krishna, M. Rajaiah, K. Veera Reddy, Nanda Kishore, C.Narayana and B. Mahaboob
11.30 am	PSM 1337	An assessment of additive manufacturing technology for automotive and aerospace applications.	Dinesh Kumar Madheswaran, R.Ganesamoorthy, S.Selvi, R.Vezhavendhan, Rajesh Ravi, G. Suresh, P.Chandramohan
11.50 am	PSM 1343	Design and simulation analysis of a rack & pinion seat recliner mechanism	Dinesh Kumar Madheswaran, R.Ganesamoorthy, R.Manikandan R.Vezhavendhan, Rajesh Ravi, G. Suresh , P.Chandramohan
12.10 pm	PSM 1345	Analysis of Stiffened In-homogeneous Plates	Anup Kumar Pathak and Srikant Sekhar Padhee
12.30 pm	PSM 1358	6D Pose Estimation, a Technique Based on Neural Networks for 6DOF of a Robotics ARM.	Pallavit Kumar Khare, Balaka Biswas, Anuj Gupta
02.00 pm	PSM 1374	Enhancing heat exchanger performance with the use of nano fluids, twisted tubes, and tape	Hussein Hayder Mohammed Ali, Fatima A. Tahir
02.20 pm	PSM 1378	Car Crash Analysis Using Finite Element Analysis	Harsh S Soni, Reena R Trivedi, Bharat A Modi
02.40 pm	PSM 1408	Experimental Investigations of the Electromagnetic Launching System for Missiles using Linear Induction Synchronous Coil	Sajin S, Carol Ignatius Stephen S, Keerthieswaran S, Raja Joseph D, Sathish S, Seralathan S

03.00 pm	PSM 1412	Contribution of Electrostatic Forces in Ion Propulsion for Application in Unmanned Aerial Vehicles	Patil Rushikesh, Pulkit Jain, Harjot Singh Gill
03.20 pm	PSM 1420	Nanocoated Solar Panel Cleaning System Using High Pressure Water Jet Nozzle	Sameer Vijay Bukane, and Dr. Vasim A. Shaikh
03.40 pm	PSM 1451	Optimization of Process Parameters by Taguchi based Grey Relational Analysis in Machining of AISI 4340 using Hybrid Nanofluids MQL	Rahul Bhedasgaonkar and Uday Dabade
04.00 pm	PSM 1461	Mechanical Properties and Vibration Responses of Nanocomposite: A Review	Nourilhuda Ghassan Ayham, Essam Zuheir Fadhel, Luay hashem abbud
04.20 pm	PSM 1357	Markov chain analysis of future land use/land cover prediction of Guwahati Metropolitan Region (GMR) Assam, India	Jeni Bhattacharjee, Swapna Acharjee, and Sudisht Mishra
04.40 pm	PSM 1465	A Review of Eco-Friendly Concrete Materials: Advancements and Environmental Impact	G Shyamala and D Maruthachalam

## Session 6: MSCE01 - ONLINE

Date: 17.08.2023

Time: 11.10 am to 04.30 pm

**Special Invitee** : Prof. Anusha G, Head/Civil  
**Session Chairs** : Prof. Sabarinathan, SRM, Prof. S. Senthilkumar, VIT  
Dr Sivanandam, CFRD, Prof. K. Thenmozhi, VIT  
**Session Coordinator** : Sowndarya  
**Session Coordinator contact No.** : 9361384535

Google meet link: <https://meet.google.com/bmw-nsdp-hag>

Time	Paper ID	Paper Title	Author(s)
11.10 am	PSM 1261	Study of the Thermal Diffusivity of a Ceramic-Polymer Material Based on Polyamide with the Inclusion of Varishaped Aluminum Oxide, Obtained by the FFF Method	Anton Smirnov, Roman Khmyrov, Ekaterina Kuznetsova, and Alexandra Kurmysheva
11.30 am	PSM 1356	The Effect of Thickness on the Impact Resistance of Hybrid Composite Material with Seashell and Graphene Nanofillers for Protection in Aerospace Industry	Ahmad Hosseini, and Asokan Raji
11.50 am	PSM 1373	Development of Low Carbon Binder Produced from Quaternary Blending of Cement for Sustainable Construction: A Review on Current Materials, Properties and Applications	K.Poongodi, P.Murthi, P. Raj Kumar
12.10 pm	PSM 1428	Weather Wizard: Using Machine Learning to Forecast the Weather	Selvakumar V, Manasa Gajawada, Akanksha Kadhire, Attem Akhila
12.30 pm	PSM 1475	Features of the Physicochemical and Thermoelectric Properties of Alloys of the InTe-Bi <sub>1.3</sub> Sb <sub>0.7</sub> Te <sub>3</sub> SYSTEM	Chingiz Abilov, Mehriban Hasanova, Elmira Kasumova, Nigar Huseynova, Elm Khan Kurbanov
02.00 pm	PSM 1509	Machine Learning (ANFIS) optimization of h-BN and GNP-based polymer composite	Mantesh C Choukimath, N R Banapurmath
02.20 pm	PSM 1593	Hydrogen Storage Capacity of Hf Decorated Graphene: A DFT Approach	Ravindra Karde and Baliram Lone
02.40 pm	PSM 1193	Developing an Effective Online Platform for Medication Purchase: A Case Study of a Pharmacy's Website Development	Swati Joshi, Mrunmayee Naik, Meet Nahar, Yash Nagrale, Kripa Naik, Sakshi Naik, Mital Nakawal.

03.00 pm	PSM 1232	Convective Drying Kinetics of Pre-treated Kinnaur Apple Slices at Selective Temperature: A Comprehensive Study	Tanushree Bhattacharjee, Omkar Mudkanna, Soham Bhawe, Omkar Kedari, Sohan Kamble, Kaustubh Nilakhe and Sanket Khade
03.20 pm	PSM 1253	Adsorption of Methylene Blue Dye onto Low Cost Adsorbent, Cocoa seeds shell Powder using a Fixed Bed Column	Prasad KSNV, Sri Devi Veluru, Raghavendra Rao AV, BhanuRadhika G, Harshith Nadipelli, Sai Kumar Miriyala, Naga Shresta Krishnam, Dhruva Rahul Manyam, Siddhardh Naik Islavath
03.40 pm	PSM 1316	Maximizing tea waste potential by soaking with acids and alkaline pre-treatment under hot air oven: Analysis of Functional Groups using FTIR	Husam Talib Hamzah, Sridevi Veluru, Nabil Majd Alawi, Thamer Adnan Abdullah, M.Tukarambai, R. Srikanth, Venkata Rao Poiba, Modi Musalaiah
04.00 pm	PSM 1460	Solvent Pre-treatment of Tea Waste and Rice Straw Powder: Analysis of Functional Groups using FTIR	Husam Talib Hamzah, R. Srikanth, Veluru Sridevi, Venkata Rao Poiba
04.20 pm	PSM 1514	Transfer Learning-based Cotton Plant Disease Detection using Resnet152V2 and Dense Neural Network Layers with Image Augmentation and Fine-tuning Techniques	Makrand Upkare, Rohit Mandake, Shivraj Kadam, Athang Rajebhosale, Anushka Puneekar
04.40 pm	PSM 1375	Evaluation of Pozzolanic performance of different novel mineral admixture	K.Poongodi, P Murthi, M.Naveen Kumar, P.Shiva Yeshwanth, K.Pujitha, T.Vineela

## Session 7: APH01 - ONLINE

Date: 17.08.2023

Time: 11.10 am to 05.00 pm

**Special Invitee** : Prof. Balasubramaniam S, Head/Chemical  
**Session Chairs** : Dr Babu Balraj, Physics, Dr. A. Kalaivani, Physics  
Dr.S.Raju, Physics, Dr. K.Prabakaran, Physics  
**Session Coordinator** : Jasmine  
**Session Coordinator contact No.** : 9789108830

Google meet link: <http://meet.google.com/hwz-zcfm-pad>

Time	Paper ID	Paper Title	Author(s)
11.10 am	PSM 1163	An approach to successive radioactive decay of nucleus using some integral transform	Shilpa Kulkarni, Pralahad Mahagaonkar
11.30 am	PSM 1236	An Electron-Correlated Study of Regulating the Optical Properties of Polycyclic Aromatic Hydrocarbons by Tuning their Geometry	Tista Basak and Tushima Basak
11.50 am	PSM 1252	Cluster decay analysis of the Z=102 element identifies N=184 as the shell closure	G. Tripathy, P. Mohanty, C. Dash, K. K. Jena, S. K. Agarwalla, B. B. Sahu
12.10 pm	PSM 1360	Clustering Of Moisture Transport Trajectories : A Case Study	Meenakshy Dev M, Arya S Nair, Dhanya M
12.30 pm	PSM 1391	Studies on the Structural, Morphological and Dielectric Properties of Lead-free Perovskite $Ba_{0.8}Ca_{0.2}TiO_3$ Ceramic	Tuntun Shah, Biswajit Dalai, Bijuni Charan Sutar, Hari Sankar Mohanty
02.00 pm	PSM 1414	Shell closure at N=108 and its structural properties for the Pt-element	P. Mohanty, G.Tripathy, C. Dash, K. K. Jena and B. B. Sahu
02.20 pm	PSM 1492	Carbon-doped graphitic carbon nitride microtubes derived from sacrificial Sisal fiber template with enhanced visible light absorption	Shalini Viswanathan, Manjusha Eledath, Anooj Anil Pallikkara, Fermil Muhammed, Majji Kavya Sri, Aparna K
02.40 pm	PSM 1498	The Impact of Continuous Wave Laser on the Crystalline and Dielectric Properties of Graphene Oxide	Dipak Kumar Sahoo, Biswajit Dalai, Arun Mohanty, Chhatrapati Parida

03.00 pm	PSM 1504	Comparison and Selection of Reactor for Synthesis of Methanol Over Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> Catalyst	Upkare Makarand, Rajpurohit Subhash, Ratnapagol Kaushal, Rokade Ishan, Rokade Hrushikesh, Pardeshi Onkar, Londhe Sahil
03.20 pm	PSM 1572	Design and Implementation of Reversible Vedic Multiplier Using BVF Gate, BME Gate, CNOT Gate, And PERES Gate	Nandhini. V, Sambath. K
03.40 pm	PSM 1564	Synthesis and Characterization of Folic Acid Decorated Magnetic Nanoparticles for Industrial Wastewater Purification	S.Karthick, T.Thangeeswari , M.Dharani
04.00 pm	PSM 1583	Co-Precipitation Synthesis of rGO Wrapped CuO-MgO Nanocomposite and Their Superior Antimicrobial Properties	S. Kumaraguru, L. Ragnath, J. Suresh
04.20 pm	PSM 1588	Low Temperature Magnetic Characterization of CoFe <sub>2</sub> O <sub>4</sub> Ferrite Nanoparticles	Grish Chandra, Neelam Sharma and R C Srivastava
04.40 pm	PSM 1601	Investigation of Natural Iron Oxide Materials In Photo-Catalytic Applications	Thangeeswari. T, Inigo Valan, Arulkumar. E, Mahalakshmi.R



## Session 8: AMA02 - ONLINE

Date: 18.08.2023

Time: 10.30 am to 03.40 pm

**Special Invitee** : Prof. Sivakumar T, Head/IT  
**Session Chairs** : Dr. M. Prakash, Maths, Dr Raja N, Maths  
**Session Coordinator** : Anusree  
**Session Coordinator contact No.** : 9544914459

Google meet link: <http://meet.google.com/puv-vyxs-qia>

Time	Paper ID	Paper Title	Author(s)
10.30 am	PSM 1363	On Some Application of Matrix Algebra Tools	B. Mahaboob, S.Nanda Kishore, Shaik Mohiddin Shaw, Y. Hari Krishna, Y. Harnath and C. Narayana
10.50 am	PSM 1365	A Note on SVD and Pseudo-Inverse	V. Rama Krishna, M. Rajaiah, P. Siva Prasad, Y. Hari Krishna, T.Prasanna Kumar and B. Mahaboob
11.10 am	PSM 1376	Bifurcation Analysis of Three Prey Predator Model with Fear Effect	Akshaya.K, Muthukumar.S, Deepak.N.P, Siva Pradeep.M, and Nandha Gopal.T
11.30 am	PSM 1395	Preparation, Spectral Analysis of a Substituted Phenyl acetanilide from Aniline	M. Amin Mir, M. Waqar Ashraf, Kim Andrews
11.50 am	PSM 1398	Transition Metal Complexes of (Ti, V, Cr and Mn,) and Pyrolidine-2-carboxylic acid Synthesis, Characterization and Antimicrobial Activity	M. Amin Mir, Mohammad Waqar Ashraf, Kim Andrews, Syed M Hasnain, Ajay Singh
12.10 pm	PSM 1403	Pseudo symmetric ideals in near subtraction semigroups	Jayarami Reddy.M, Siva Prasad.P, and Madhusudana Rao.D
12.30 pm	PSM 1411	Some New Combinations of SSP Graphs	R. Mary Jeya Jothi, Emalda Roslin
02.00 pm	PSM 1429	New Formula of Huff's Curve for Public Key	Batool Hatem Akar AlKfari, Ruma Kareem K. Ajeena,
02.20 pm	PSM 1440	Colour Pigment from Plants- Anthocyanin as an Acid Base Indicator	M. Amin Mir, M. Waqar Ashraf, Nidal Abu-Libdeh, Kim Andrews, Nupur Kukretee

02.40 pm	PSM 1443	The Transmuted Hazard Linear Hazard Rate Model THLHRM	Zahra mahmood fadhil, Kareema A. AL- Kadim
03.00 pm	PSM 1445	Pentapartitioned Neutrosophic Vague Generalized Pre-Closed Sets in Pentapartitioned Neutrosophic Vague Topological Spaces	Radhika V R, Mohana K
03.20 pm	PSM 1707 (Poster)	Development of High Performance High Voltage Insulator for Power Transmission Line from Blends of EPDM Rubber/Ethylene Vinyl Acetate Copolymer Containing Silica	Dr.R.Baskaran, Dr.M.G.Sribala, Dr.S.Gandhi and B.K.Parrthipan
03.40 pm	PSM 1580	On Total Power Dominator Coloring of Graphs	Bala Samuvel J, SamDanielThompson G, Divya Jebaseeli A

## Session 9: AMA03 - ONLINE

Date: 18.08.2023

Time: 10.30 am to 03.20 pm

**Special Invitee** : Prof. S.Karthikeyan, Head/AIML  
**Session Chairs** : Dr.P. Suriyakumar, Maths, Dr. Aravindh, Maths  
**Session Coordinator** : Saranya devi  
**Session Coordinator contact No.** : 7402558415

Google meet link: <https://meet.google.com/nxr-kqgf-ram>

Time	Paper ID	Paper Title	Author(s)
10.30 am	PSM 1455	Reliable Rabin Cryptosystem Using the Modified Decomposition Method	Ban Jasim Kadim, Ruma Kareem K. Ajeena
10.50 am	PSM 1458	Fuzzy optimization of the Reliability of complex system	Ahmed Abdulhussein Jabbar and Audi Sabri Abd ALRazaq
11.10 am	PSM 1477	Locally Convex Algebra Via Pseudo Topological Structures	Faleh Addul Mahdi Jaber, AL- Nafie Z.D
11.30 am	PSM 1484	Elliptic Curve Matrix Group Ring for Discrete Logarithm Public Key Cryptosystems	Qasim Mohsin Luhaib, Ruma Kareem K. Ajeena,
11.50 am	PSM 1493	Tangent Space in Reliability Manifolds	Nada Mohammed Abbas and Audie Sabrie
12.10 pm	PSM 1507	Interval-Valued Picture Fuzzy Topological Spaces and Application of Interval-Valued Picture Fuzzy Sets in Multi Criteria Decision-Making	M. Kishorkumar, M. Karpagadevi, S. Krishnaprakash, R. Mariappan, R. Ramesh
12.30 pm	PSM 1511	Identification of Contour Using Fuzzy C - Means and Lattice Boltzmann Method for Elemental Nutrient Deficiency in Cotton	M. Mervin Paulraj, J. Vijayakumar and A.H. Prakash
02.00 pm	PSM 1526	A Fermaten Pentapartitioned Nuetrosophic Ranking Function in Optimization Pentapartitioned Nuetrosophic Transportation Problems	R. Subha, K.Mohana, Research scholar, Assistant Professor
02.20 pm	PSM 1539	Algebraic Operations on Quadripartitioned Neutrosophic Vague Sets	Hinduja V, Mohana K
02.40 pm	PSM 1595	Picture Fuzzy Soft Topological Spaces and its Application on Decision Making	K. Kanaksindhu, R. Mariappan, R. Ramesh and S. Krishnaprakash

03.00 pm	PSM 1603	The Survival Weibull-Uniform Distribution and Application	Reyah. Z. AL-khazaly and Kareema. A. AL-khafagy
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## Session 10: CS02 - ONLINE

Date: 18.08.2023

Time: 10.30 am to 04.00 pm

**Special Invitee** : Prof. Devi Priya R, Head/CSBS  
**Session Chairs** : Dr Rajasekaran, Dr Sivaramakrishana  
**Session Coordinator** : Nanthini S  
**Session Coordinator contact No.** : 9842833557

Google meet link: <https://meet.google.com/xpt-evef-tyg>

Time	Paper ID	Paper Title	Author(s)
10.30 am	PSM 1401	Speech Emotion Recognition using Deep Learning Algorithms	T. SampathKumar, Anugam Saikiran, Irukulla Apoorva, Gaddam Huldah grace, Meghana Daddanala, Anugam Udaykiran
10.50 am	PSM 1402	Deep learning based Emotion Recognition in human-robot Interaction with multi-modal data	Jain Joseph, Joseph Zacharias, Aneesh R P
11.10 am	PSM 1410	Rapid Text Detection Using Mixed Supervised EM Algorithm	Bibin Vincent, Aneesh R P, Akhilaraj D, Joseph Zacharias
11.30 am	PSM 1415	Motives behind employee turnover from the perspective of hotel industry human resource practices	H M Mahfuzur Rahman, Sreenivasan Jayashree, Chinnasamy Agamudai Nambi Malarvizhi, Saranya Sree Subramaniam
11.50 am	PSM 1434	Designing and Simulating Orthopaedic Implants in Pre, Intra and Post Operative Phases	G.Malathi, B.Latha
12.10 pm	PSM 1444	Automated ID Document Extraction and Classification: An Integrated Approach for Efficient Information Retrieval from Identity Documents	Vijaya Shetty S, Madhumitha R, Roshan Fernandes, Mekala Meghana Reddy, Shreya Shettar and Tejashree Krishna Murthy
12.30 pm	PSM 1447	Early Detection of Stroke Using MRI Images-A Machine Learning Approach	Vijaya Shetty S, Sarojadevi H, Shilpa Ankalaki, Chamarthi Dedeepya, Shreeraksha S, Ganavi N
02.00 pm	PSM 1487	Image Detection CNN Model for Accurate Tomato Plant Disease Detection Using Inceptionv3 and Image Augmentation Techniques	Makrand Upkare, Rohit Mandake, Shivraj Kadam, Ashlesha Todkar, Shreya Tonape

02.20 pm	PSM 1494	Leveraging Machine Learning Techniques for the Identification of Trojans in Container Images	Ponnanna MB and Nagasundari Sb
02.40 pm	PSM 1527	A Novel Blockchain Approach for Decentralized Financing	Dileep Reddy Bollaa, S Trisheelab, P Nagarathna N, SarojaDevi H
03.00 pm	PSM 1529	Role of Internet of Everything (IoE) in Higher Education:An Overview	Varun Chand H, Mazura Jamalai@Jamali, Preeti Mariam Mathew, Arun Kumar S, Deepa Devassy and Anoop S
03.20 pm	PSM 1530	Body Language Recognition using Machine Learning	Dhandapani Samiappan and D. Kanchana
03.40 pm	PSM 1599	Age & Gender based Voice Pathology Classification using Deep Neural Technique	Dhanalakshmi M, Vanthana P, Sonali. S, Anou nivedha. A

## Session 11: EE01 - ONLINE

Date: 18.08.2023

Time: 10.30 am to 04.00 pm

**Special Invitee** : Prof. Mohana sundaram. K, Head/EEE  
**Session Chairs** :  
**Session Coordinator** : Ajith Kumar  
**Session Coordinator contact No.** : 9487932868

Google meet link: <https://meet.google.com/xdt-jrmy-wam>

Time	Paper ID	Paper Title	Author(s)
10.30 am	PSM 1244	Temperature Sensor Failure Detection and Diagnosis based on ARIMA Model	Pramod kanjalkar, Jayanand Gawande, Jyoti Kanjalkar, Krushna More, Sanskruti Shimple, Varun Manwatkar, Amit Mohite
10.50 am	PSM 1257	Low Voltage Micro Electro Mechanical Systems Gas Sensor for Smart Industrial Smart Applications	Britto Martin Paul Naricetti, G.V.Ganesh
11.10 am	PSM 1305	Experimental Realization of Quantum Teleportation Algorithm via Electrical Circuits	Osman Semi Ceylan, Emine Canan GÜNAY DEMİREL and İhsan YILMAZ
11.30 am	PSM 1315	Three Phase four wire Distribution Static Compensator for power quality improvement	Digvijay B Kanase, H. T. Jadhav
11.50 am	PSM 1334	software study on structural material test facility of fast breeder reactor	Shanmugasundaram .M, D.Thirugnanamurthy, V.S.Srinivasan, B.K. Nashine
12.10 pm	PSM 1335	safety study on safety grade decay heat removal in fast breeder reactor	Shanmugasundaram .M, D.Thirugnanamurthy, V.S.Srinivasan, B.K. Nashine
12.30 pm	PSM 1370	Integration of Wind Energy in Smart Grid: A Review	Moulya P, Manitha P.V, Manjula G Nair
02.00 pm	PSM 1394	Incremental Conductance MPPT Algorithm Implementation in a Photovoltaic System Using Cuk Converter for Battery Charging	Sachin P Jadhav, Shankar D Chavan, Digvijay B Kanase, Pankaj Kumar, Rajashree Bhokare
02.20 pm	PSM 1438	Current-Mode Fuzzy Logic Controlled Cascaded Quadratic Boost Converter fed DC Drive System	Priya.R.A, Hema.S

02.40 pm	PSM 1543	Human motion Effects on receiving signal strength using a wireless sensor network	M. S. M. Abdullah, M. H. F. Rahiman, N. S. Khalid and A. S. A. Nasir
03.00 pm	PSM 1546	A Horizontal Analysis on Second Life Potentials of Lithium ion batteries with its challenges involved	Keren Persis P, P. Subramanian, Shiek Aalam, K.Kalaiselvi, S. Jeyalakshmi, Pavankumar Ravindra Sonawane
03.20 pm	PSM 1565	Enhancing Watermark Robustness in Medical Images through Knight's Tour-based Algorithm	Norsabihah Adnan, Nur Hafizah Ghazali, Rusnida Romli, Nik Adilah Hanin Zahri, Amiza Amir, Thangaparakash Sengodan and Nalini C.
03.40 pm	PSM 1610	Design and Optimization of External Light Concentrating Fixtures for Micro-Concentrator Photovoltaic (m-CPV) Application	Niveditha Nair, Anjitha M. Pillai, Vishnuraj R, Akshay Kailas, Rohan M Raj, Sreejaya T, Athiralal M S, Ganga Unni M, Sanjay K. Ram



## Session 12: EC01 - ONLINE

Date: 18.08.2023

Time: 10.30 am to 04.20 pm

**Special Invitee** : Prof. Indra J, Head/ECE  
**Session Chairs** :  
**Session Coordinator** : Yogeswari  
**Session Coordinator contact No.** : 7010857191

Google meet link: <http://meet.google.com/uwo-ryf-hyy>

Time	Paper ID	Paper Title	Author(s)
10.30 am	PSM 1020	Deposition and Characterization of ZnO Thin Films on Corning Glass Substrate Using Magnetron Sputtering	K Naveen Kumar, Naina R Karkal, Habibuddin Shaik, R Imran Jafri, Anantha, Sunil Maligi, Darshan S Salimath, Omkar Singh, Ramya H G
10.50 am	PSM 1254	Design of Cherry Blossom Flower – Shaped fractal Antenna for Wearable Application	R.Jothi Chitra, M.Sivarathinabala, Gowtham, Naveen Kumar. R.K and Selva Gandhi
11.10 am	PSM 1273	Analytical Investigation of Channel Length Influence on Organic Thin Film Transistor (OTFT) Performance using MATLAB Modeling	Chandaboina Pavan Kumar and Manish Kumar Singh
11.30 am	PSM 1289	Surface Potential Model of DM FinTFET for Steeper Slope Characteristics	Ajaykumar Dharmireddy, Hundi Sudhakar, Chuduru Madhavarao, Yalamarthi Ganesh.
11.50 am	PSM 1372	Preliminary Study of Dyslexia Using Machine Learning Algorithms	Jincy .J, Subha Hency Jose.P
12.10 pm	PSM 1407	Self-Healing Radiation-Hardened Latch Design Using 45-nm CMOS Technology	Silpa S and Resmi E
12.30 pm	PSM 1468	A Hybrid Image Processing Algorithm to Examine Diseases in Citrus Leaves and Fruits	Usha P, J. Vijayakumar, Nisha P
02.00 pm	PSM 1478	Design, Challenges and Developments for Broadband Printed-Dipole Antenna in 4G/5G Smartphone Applications	Abeer Kamil Hachim, Mohammed Aboud Kadhi, Hmood Shab Hamed

02.20 pm	PSM 1534	Design of Flexible Substrate Triangular Patch Antenna for WBAN Applications	K.Mahendran, S.Sri kamatchi, R.Sivaranjani, A.Sowmiya
02.40 pm	PSM 1562	A Cost-Efficient Nutrient Management System for Soilless Culture in Greenhouses	A. Hemalatha, J. Vijayakumar and M. Mervin Paulraj
03.00 pm	PSM 1586	Double split square ring resonator with Plasmonic MIM waveguide for slow light application	Mustapha Figuigue, Rida El Haffar and Oussama Mahboub
03.20 pm	PSM 1587	Investigation of Massive MIMO in mmWave and Sub 6 GHz	Krishna Nand, Sunil Aggarwal, Gurpreet Kaur
03.40 pm	PSM 1611	Optical Parameter Determination of Amorphous Semiconductor Thin Films for Photovoltaic Device Modeling	Farha A, Anjitha M. Pillai, Niveditha Nair, Dhanya M, Sanjay K. Ram

### Session 13: ME03 - ONLINE

Date: 18.08.2023

Time: 10.50 am to 04.15 pm

**Special Invitee** : Prof. Dr. K. Ravi Kumar, Mech  
**Session Chairs** : Dr Senthilkumar, Mech, Dr. V. Bhuvaneshwari, Mech  
**Session Coordinator** : Gomathi  
**Session Coordinator contact No.** : 9940966629

Google meet link: <https://meet.google.com/hva-dxqk-ppn>

Time	Paper ID	Paper Title	Author(s)
10.30 am	PSM 1463	Advances in Magnesium Alloys and Coatings for Biomedical Applications: A Comprehensive Review	S. S. Gholap, K. B. Kale
10.50 am	PSM 1466	Study of the influence of FSP parameters affecting the Thermal Properties of Al6061 Composites	Pragya Saxena, Arunkumar Bongale, Satish Kumar
11.10 am	PSM 1501	A Review on: Technologists Interest on Natural Fibers	B.Kotteesvaran, S.Vijayakumar, G.Suresh, P.Vimalanathan
11.30 am	PSM 1518	Application of Value Stream Mapping on Office Furniture Industry- A Case Study	Lloyd Sheebu, Manvitha Chowdary, Y P Deepthi, Gayathri Tanuja G, Mahantesh M math
11.50 am	PSM 1538	Analytical Method to Reduce the Temperature of the CVT	Mangesh Chaudhari, Neel Gujar, Shreyash Gurav, Parth Gurjar, Sumedh Habde, Adarsh Halake
12.10 pm	PSM 1554	Experimental Investigation on the Effect of Process Parameters on the Mechanical Properties and Microstructure of Friction Stir Welded AA5083 Aluminum Alloys	Shashank Munigala, M.S. Srinivasa Rao, B.V.R. Ravi Kumar and M. Venkata Ramana
12.30 pm	PSM 1558	Numerical Investigation of serrated raked winglet aerodynamic performance	Mohamed Hussain, Vishnu Kumar G C
02.00 pm	PSM 1457	Studies on Safety Management in Construction Sites in India	G Shyamala and D Maruthachalam, T Madhusudhan Reddy
02.20 pm	PSM 1567	Optimization of Cutting Parameters of AISI 316L Stainless Steel in Wet Condition During Turning Operation Using the Taguchi Technique	Pratik Kamble and R. K. Shrivastava

02.40 pm	PSM 1569	Hyper-Reductant Snake Robot for Military Search and Rescue Operations	Vipin Paul, Dr. Pramod Sreedharan
03.00 pm	PSM 1577	Effect of Process Parameters on Microhardness of SS304 Coated with Blended TiO <sub>2</sub> /ZnO	Vandana N. Mahajan, M.J.Sable, S.P.Shekhawat, Suhas R.Patil
03.20 pm	PSM 1604	Design and Development of Contactless Electromechanical Braking System for Automotive Applications	Lawrance G, Sam Paul P, Balasankar S, Bava Dharshini M, Ansan D Dhas, Febinesh kannan DJ, Aadhil Mohammed
03.40 pm	PSM 1541	A Behavioral Study of RCC Beam Encased WWM Wrapping with Analytical Prediction Under Pure Torsion	Vivek V. Mane, Nandkumar K. Patil, Amey D.Katdare, Satish S. Kotwal, Mayur M. More, Vidyanand S. Kadam
04.00 pm	PSM 1480	Effect of Bagasse Ash and Terrazyme on Geotechnical Properties of Black Cotton Soil	P. Muthaiyan, M. Uma Magesvari, S. Yugasini, M. Akash, S. Loshini and S. Eshwar Kumar