



*National Conference on
Advanced & Emerging Materials for Technological Applications*
(AEMTA-2024)

(March 15-16, 2024)

Sant Longowal Institute of Engineering and Technology
(Deemed University, Centrally Funded Technical Institute of Govt. of India)
Longowal, Distt. Sangrur-148106 (Punjab)

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(Final list of accepted abstracts for presentation in AEMTA-2024 with other details)

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108.	A-AM-108	Mahendra Singh, Himanshu Rani and Harish Kumar Chopra	Ultrasound-Assisted Extraction, Optimization and Purification of Inulin from Chicory Roots (<i>Cichorium intybus</i> L.)	RESEARCH SCHOLAR	OFFLINE/ POSTER		
109.	A-AM-109	Praveena R, Anbazhakan K, Deepa V, Viswanathan M, Dhinagarraj P	Myrrh-Inspired Biopolymer Electrolyte: A Sustainable Approach using Lithium Bromide	RESEARCH SCHOLAR	ONLINE/ ORAL		
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134.	A-AM-134	Joshua Gnana Sekaran J, Girimurugan R, Mary Jenila R, Bharani Prakash T, Kanagaselvam R, Muthuraj M	Investigation of Building Materials Filled with Phase Change Material (PCM) for Thermal Energy Storage Through Numerical Analysis	FACULTY	ONLINE/ ORAL		
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163.	A-AM-163	Biswajit Biswal, Niranjana Nag, Kaliprasanna Sethy and Dilip Kumar Bagal	A Comparative Study of Optimization Approaches for Enhancing Self-Healing Properties of Mortar: White Shark vs. Cat Mouse vs. Corona Virus Optimization	RESEARCH SCHOLAR	ONLINE/ORAL		

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172.	A-AM-172	Monisha Sahu, Pritiprajnya Mohanty and Dilip Kumar Bagal	A Combinatorial Method for Improving the Mechanical Properties of Concrete: Leader Harris Hawks Optimization, Dingo Optimization Algorithm, and Artificial Rabbits Optimization	RESEARCH SCHOLAR	ONLINE/ ORAL		
173.	A-AM-173	Pushp Raj Harsh, Ujjwal Prasad, S.R. Kumar and K. Prasad	Synthesis of Graphene via Electrochemical Exfoliation in Aqueous Medium: A Sustainable Approach for Large-scale Production	RESEARCH SCHOLAR	OFFLINE/ POSTER		
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175.	A-AM-175	Monisha Sahu, Pritiprajnya Mohanty and Dilip Kumar Bagal	A Combinatorial Method for Improving the Mechanical Properties of Concrete: Leader Harris Hawks Optimization, Dingo Optimization Algorithm, and Artificial Rabbits Optimization	RESEARCH SCHOLAR	ONLINE/ ORAL		
176.	A-AM-176	Preeti Yadav ¹ and Chetna Tyagi	Linear and Nonlinear optical study of Se ₈₂ Te ₁₅ Bi _{1.0} Sn _{2.0} /PVP nanocomposites for Photonic applications	FACULTY	ONLINE/ ORAL		
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179.	A-ME-02	Amit Kumar Yadav , Smaranika Dash and Sunipa Bhattacharyya	Bioprinting- An Innovative Approach for Tissue Engineering	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	403017391 911
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182.	A-ME-05	Vijay Kumar, Rojaleena Das and Vikrant Singh	Microstructural and wettability behaviour of WC-10Co-4Cr+graphene coating on IS-2062 steel substrate	RESEARCH SCHOLAR	ONLINE/ ORAL		
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190.	A-ME-13	Himanshu Sharma, Vikrant Singh, Anuj Bansal, Anil Kumar Singla, Jagtar Singh	To Study the Cavitation Behavior of WAAMed Cladded Inconel 625 over Mild Steel	RESEARCH SCHOLAR	ONLINE/ ORAL		
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192.	A-ME-15	Nitin Kumar, Jaspal Singh Gill	Cavitation erosion analysis of Mo2C+CoNi and GNP coating applied to SS304 using HVOF	RESEARCH SCHOLAR	ONLINE/ ORAL		
193.	A-ME-16	MD Abdulla	An investigation of dry sliding wear for short e glass fibre based Particulates Filled polyester Hybrid Composites	RESEARCH SCHOLAR	ONLINE/ ORAL		
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195.	A-ME-18	Yogesh S. Shete and Dr. Nikhil Kadam	Solid Lubricants in Machining: Enhancing Performance and Sustainability	RESEARCH SCHOLAR	ONLINE/ ORAL		
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198.	A-ME-21	Kajal Singh , Hari Shanker, Ajay Pratap Singh,	Mechanical and Microstructural properties of GMAW Welded Ferritic AISI 1080 Carbon Steel (UNS G10800)	FACULTY	ONLINE/ ORAL	Rs.750	XX4498
199.	A-ME-22	Dr.Sethuram D, Shreyas Ramanujam , Sadashiva Benakatti Sagnik Ray , Sameer Raghavendra	Comparison of Mechanical Properties Of Pla Reinforced With Aluminium Powder By Impact Testing	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs. 3000/- For 04 students	402920981 018

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202.	A-ME-25	MD Abdulla	The effect of test specimen thickness on the IZOD impact strength for Fused Filament Fabricated based 3D printed specimens using PET and PETG filaments	RESEARCH SCHOLAR	ONLINE/ ORAL		
203.	A-ME-26	Karan Modi, Snehal Baraiya, Kamlesh Joshi, Navneet Khanna	A comparative study of tool life during drilling of additively manufactured and wrought Inconel-718	RESEARCH SCHOLAR	OFFLINE/ ORAL		
204.	A-ME-27	Arnab Mandal, Manoj Kundu	Analyzing, Predicting And Optimizing Cutting Forces In Turning With A Lathe Tool Dynamometer With Variable Feed Rates	FACULTY	ONLINE/ ORAL		
205.	A-ME-28	Rahul	Machinability Investigation during CNC Turning of Novel Incoloy 825 Super alloy using Carbide Tool Uncoated Ceramic Inserts CNMG120408	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	SBIN4240 35217222 AE
206.	A-ME-29	Ankur Kumar	Design And Power Density Analysis Of Axial Flux Permanent Magnet Synchronous Motor With Hybrid Stator For Electrical Vehicle	RESEARCH SCHOLAR	OFFLINE/ ORAL		
207.	A-ME-30	Mandeep Singh, Deepak Bhandari, Khushdeep Goyal,	Fabrication and microstructural properties of aluminium-based hybrid nanocomposites by vacuum die casting	FACULTY	ONLINE/ ORAL		
208.	A-ME-31	Ashish Kumar, Davinder Singh , Khushdeep Goyal	A Review of Erosion Behavior of Nanocomposite Ceramic Coatings on Turbine Blades	RESEARCH SCHOLAR	ONLINE/ ORAL		
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