



2nd International Conference on “Recent Advances in Materials, Manufacturing and Machine Learning” (RAMMML-2023)

2 nd February 2023	
10:30 AM to 11:30 AM	Inauguration Ceremony
11:30 AM to 12:00 PM	High Tea
12:00 PM to 02:00 PM	<p>Session I: (Time: 12.00 PM – 02.00 PM)</p> <p>Track 1: Materials</p> <p>Track 2: Finite Element Method</p> <p>Track 3: Optimization Techniques</p> <p>Track 4: Machine Learning</p> <p>Track 5: Manufacturing</p> <p>Track 9: Civil Engineering</p>
02:00 PM to 03:00 PM	<p>Keynote Address 1: Mr. Steve Welch, NPTC Group of Colleges, UK</p> <p>Topic: “Exploring Mechanical Engineering Education in the UK”</p> <p>Joining Link:</p> <p>https://teams.microsoft.com/j/meetup-join/19%3ameeting_MTCwMGVMzcmJFJZC00OD8kLTgxODctM2U4MjO4Y2Y0MjRm%40thread.v2/0?context=%7b%22Id%22%3a%221d292891-adcd-48dc-9957-bbe8e9d906fc%22%2c%22Oid%22%3a%22e73675f6-c6a2-4349-b145-3ad45f235696%22%7d</p>
03:00 PM to 05:00 PM	<p>Session II: (Time: 03.00 PM – 05.00 PM)</p> <p>Track 6: Materials</p> <p>Track 7: Manufacturing</p> <p>Track 8: Renewable Energy</p> <p>Track 10: Modeling & Simulation</p>
04:00 PM to 05:00 PM	<p>Keynote Address 2: Dr. Alessandro Ruggiero, University of Salerno, Italy</p> <p>Topic: “Recent Advances in Computational Modeling of Total Hip Replacements Biotribology”</p> <p>Joining Link:</p> <p>https://teams.microsoft.com/j/meetup-join/19%3ameeting_OTg0ZiRiYmEtMGZmMv00ZDVhLTlhNmQzTRmMW11YEVMDU2%40thread.v2/0?context=%7b%22Id%22%3a%221d292891-adcd-48dc-9957-bbe8e9d906fc%22%2c%22Oid%22%3a%22e73675f6-c6a2-4349-b145-3ad45f235696%22%7d</p>

3 rd February 2023	
10.30 AM to 11:00 AM	High Tea
11.00 AM to 12.00 PM	<p>Keynote Address 3: Dr. Tushar Shinde, Stanford University, USA</p> <p>Topic: “AI, Machine Learning, Deep Learning and more”</p> <p>Joining Link:</p> <p>https://teams.microsoft.com/l/meetup-join/19%3ameeting_NWjwODA1ZmUyWkM00YmQ1LTlhNmEtM2lyZjcyNDRhOGZj%40thread.v2/0?context=%7b%22id%22%3a%221d292891-adcd-48dc-9957-bbe8e9d906fc%22%2c%22oid%22%3a%22e73675f6-c6a2-4349-b145-3ad45f235696%22%7d</p>
12:00 PM to 02:00 PM	<p>Session III: (Time: 12.00 PM – 02.00 PM)</p> <p>Track 11: Manufacturing</p> <p>Track 12: Civil Engineering</p> <p>Track 13: Modeling & Simulation</p>
04:00 PM to 05:00 PM	<p>Keynote Address 4: Dr. Hassan Saad Ifti, Oxford University, UK</p> <p>Topic: “Application of Ultra-High-Temperature-Ceramics (UHTC) in Aerospace Engineering”</p> <p>Joining Link:</p> <p>https://teams.microsoft.com/l/meetup-join/19%3ameeting_MZiZTY2M2EIMzEYNS00MDQ5LTg1NDUIODhkNmM4OWY3OTVh%40thread.v2/0?context=%7b%22id%22%3a%221d292891-adcd-48dc-9957-bbe8e9d906fc%22%2c%22oid%22%3a%22e73675f6-c6a2-4349-b145-3ad45f235696%22%7d</p>
03:00 PM to 05:00 PM	<p>Session IV:</p> <p>Track 14: Materials</p> <p>Track 15: Thermal Engineering</p> <p>Track 16: Interdisciplinary</p>

4 th February 2023	
10.30 AM to 11:00 AM	High Tea
11.00 AM to 12.00 PM	Valedictory Function

CONFERENCE SCHEDULE

Day 1 – 02.02.2023 (12:00 PM to 2:00 PM)

TECHNICAL SESSION – I

TRACK-1: MATERIALS

Join Meeting Link:- <https://meet.google.com/aad-xyst-kts>

Session chairs:

Dr. Dong-Myeong Shin, University of Hong Kong

Dr. Vinod Suryawanshi, VJTI, Mumbai, India

Session Coordinator: Prof. D.Y. Shahare (7620490270) (9464@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	9	A review of Shape Memory Alloys: Origins, Occurrence, Properties, and their applications	K Shreyas Suvarna, Dr. Ram Rohit V, Dr. Prakash H R, Kruttik R, Niketh S R and Rahul D
2.	29	Effect of Impact and Flexural Loading on Hybrid Composite Made of Kevlar and Natural fibers.	Pravin Thakare, Neeraj Kumar and Vinay Ugale
3.	31	An Overview of Post-Processing Techniques for SS316L Processed by Direct Metal Laser Sintering	Purushottam Pawar and Swanand Kulkarni
4.	64	Characterization of Thin Sandwich Panels Made of Glass Fibre and Polyester Foam	Vinay Ugale and Pravin Thakare
5.	97	Synthesis and Characterization of TiO ₂ incorporated Cu ₃ (BTC) ₂ -metal organic framework based advanced materials for photocatalytic CO ₂ reduction	Ramyashree M S, Veekshit Udayakumar Ail and Shanmuga Priya S
6.	126	Study and Comparison of Physical, Mechanical Properties of Polymer-Based Bio-Composites	Hrushikesh Chari, Tanmay Kanmahale and Anita Patki
7.	134	Tribological investigations on senegalia catechu based green composites	Vinayagamorthy R and Venkatakoteswararao G

Day 1 – 02.02.2023 (12:00 PM to 02:00 PM)

TECHNICAL SESSION I

TRACK-2: FINITE ELEMENT ANALYSIS

Join Meeting Link:- <https://meet.google.com/pyf-iczo-esr>

Session chairs:

Dr. James Llewellyn, NPTC Group, UK

Dr. Bikash Kumar, IIT Bombay

Session Coordinator: Prof. Prasad Hatwalne (9096273285) (10435@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	124	A Finite Element Analysis of Ball type linear motion guide ways subjected to vertical, horizontal and combined loading	Sayaji Patil, Sanjay Sawant and Prashant Powar
2.	325	Analysis of Rail Joint by Finite Element Method	Arvind Bodhe, Anoop Vishwakarma and Vrushabh Urkude
3.	393	Correlation of Modal Test and CAE Simulation Results of Car Door Assembly	Mr. Pandurang Maruti Jadhav, Dr. Kishor Bhaskar Waghulde and Dr. Rupesh V. Bhortake
4.	497	Comparative Study Of Different Coil Spring Using Finite Element Analysis	Ankur Rai and Brahma Nand Agrawal
5.	503	FEA Comparative Study for Rear and Side Engine Mounted Go-Kart Chassis	Ankur Rai, Kapil Rajput, Shah Abdul Aleem and Fakidul Azam
6.	505	Design and Analysis of Composite Leaf Spring for TATA-ACE Using Finite Element Analysis	Ankur Rai, Dr. Sudhir Kumar Singh, Akash Raj Tyagi and Husain Abbas

Day 1 – 02.02.2023 (12:00 PM to 02:00 PM)

TECHNICAL SESSION I

TRACK- 3: OPTIMIZATION TECHNIQUES

Join Meeting Link:- <https://meet.google.com/wjp-uchz-xpa>

Session chairs:

Dr. Deepshri Awale, IISC, Bangalore, India

Mr Taheed Mian, IIT Delhi

Session Coordinator: Prof. D. N. Kashyap (9503133009) (9156@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	10	Induced Vibration in Boring Process to Get Advance Machining Optimization to Acquire Recommended Surface Finishing Using Carbon Fiber Orientation	Harshvardhan Ghongade
2.	142	Topology Optimization of Aerospace Bracket using Different Materials	Syed Abdul Malik Rizwan, Mohd Abdul Wahed, Mohammed Suleman and Mohd Ibrahim Ahmed
3.	167	Modeling and Optimization of Lifting Structure for Large Corrective Actions of Wind Turbine Components	Thamodharan Krishnaraj, Refugine Nirmal Ignacy Muthu, Gurubaran Kandasamy, Anthonyraj Premkumar S and Mohammed Farook S
4.	229	Application of ANN to predict surface roughness and tool wear under MQL turning of AISI 1040	Dr Prashant Prakash Powar, Shivraj Kadam and Nitin Desai
5.	232	Application of VIKOR analysis in optimizing welding parameters of Micro Plasma Arc Welded Titanium (Ti-6Al-4V) Alloy	Kondapalli Siva Prasad and M Sailaja
6.	272	Behavior analysis and Optimization of Process Parameters in Petrochemical Industry using PSO- A case study	Janender Kumar, Virat Khanna, Munish Mehta and Sandeep Chauhan
7.	292	WAAM Process Parameters Optimization Using Rao Algorithms	Pooja Patel, Miit Pabari and R Venkata Rao
8.	456	Optimizing Processing Parameters of Reverse Osmosis Process in Zero Liquid Discharge using Taguchi Optimization Method in Alcohol Production Industry	Padmanabh Arun Gadge and Shubhangi Gurway
9.	529	AI based Modeling & Optimization of Arc Machining of Ti6Al4V Alloy using ANN-Evolutionary Algorithm	Ekta Shrivastava, Pankaj Kumar Shrivastava, Pushpendra Singh, Subhash Gautam and Abhijeet Singh

Day 1 – 02.02.2023, 12:00 PM to 02:00 PM

TECHNICAL SESSION I

TRACK- 4: MACHINE LEARNING

Join Meeting Link:- <https://meet.google.com/igj-uwao-jww>

Session chairs:

Dr. Deepak Prajapati, IIT Madras

Dr. Ajinkya Prabhune, Heidelberg University, Germany

Session Coordinator: Prof. P. V. Lande (9766903083) (9831@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	136	Experimental Investigation of Remote Street Light and Wireless Sensor Network for Electric Vehicles	Aparna Bagde, Ravikant Nanwatkar and Deepak Watvisave
2.	169	Implementation of digital twin in supply chain and logistics	Raja V, Muralidhar D, Pratheeshkumar S, Mythrayan B, Prathiksha Kg, Venkateshwaran Sp and Vikram Sivakumar
3.	233	Fusion of Human Arm Synergy and Artificial Neural Network For Programming of a Robot by Demonstration	Priya Khandekar and Pranjali Deole
4.	304	Occurrence of Coronary Heart Disease: Analysis and Classification using Machine Learning	Bharati Karare, Lalit Damahe, Aniket Pathade and Seema Mendhekar
5.	383	A Simple approach for camera calibration using the Technique for Order Performance by Similarity to Ideal Solution method	Rohit Zende and Raju Pawade
6.	473	Effect of learning rate on the performance of VGG-16 for detection of Cardiomegaly in Chest X-ray Images	Dr K Prasanna, Dr S Ravi Kumar Raju and Dr J Krishna
7.	491	Nonlinear Autoregressive (NAR) Neural Network based Multistep Prediction of Specific Enthalpy of Steam	Dr. Ashwani Kharola, Dr. Rahul Rahul, Vishwjeet Choudhary and Anurag Bahuguna
8.	492	Research on Knowledge Based Tutoring System of Engineering Graphics Learning Management	Ripon Roy, Anil Kalotra and Md Helal Miah

Day 1 –02.02.2023, 12:00 PM to 02:00 PM

TECHNICAL SESSION I
TRACK-5: MANUFACTURING

Join Meeting Link:- <https://meet.google.com/ijc-wspi-xbt>

Session chairs:

Dr S S Chiddarwar, VNIT, Nagpur
Dr, Sachin Mastud, VJTI, Mumbai, India

Session Coordinator: Prof. N. D. Gedam (9404277061) (9726@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	442	Design Of Sewing Machine Seating Structure By Measuring Anthropometric Data	Riddhi Chopde and Dr. Tushar Deshmukh
2.	459	Measurement of flank wears using edge detection method	Shrikant Jachak, Avinash Thakre, Malhaar Jachak, Prashant Kamble and Neeraj Sunheriya
3.	370	Simulation and experimentation of centrifugal casting of functionally graded Al-B4C composite	Rupesh Kumar Verma and Manoj Chopkar
4.	275	Experimental investigation of straightness error in 3 axis CNC machines using neural network	Jamuna Ravichandran, Mohanraj Manoharan and Thilagham K T
5.	506	Assessment of a LM Procedure using the ISM & AHP models in Indian MSMEs	Ms. Neha Gupta and Dr. Apurva Anand
6.	518	Applications of Hybrid Artificial Intelligence Tool in Wire Electro Discharge Machining of 7075 Aluminium Alloy	Thejasree Pasupuleti, Manikandan Natarajan and Kiruthika J
7.	519	Investigations on Sustainable Wire Electrical Discharge Machining of Haste Alloy and Evolution of Hybrid Artificial Prediction Tool	Manikandan Natarajan, Thejasree Pasupuleti and Kiruthika J
8.	520	Water Vapour assisted machining of Inconel 718 incorporating Through-tool cutting fluid delivery approach	Ganesh Kadam and Raju Pawade
9.	132	Optimization of Welding Parameters for En8D and SAE1018 Materials by Taguchi.	Amar Gajbhiye, Pavankumar Sonawane and Anuja Karle

Day 1 – 02.02.2023 (03:00 PM to 5:00 PM)

TECHNICAL SESSION – II**TRACK-6: MATERIALS****Join Meeting Link:- <https://meet.google.com/ibi-ypah-cma>****Session chairs:**

Dr. Nikolay Gokhfeld, R&D Scientist, Israel

Dr. Prosenjit Das, IISc Bangalore, India

Session Coordinator: Prof. P. V. Lande (9766903083) (9831@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	158	Synthesis and Study of Tin Chloride Pentahydrate Doped Polyaniline For Carbon Dioxide Gas Sensing	Pranav Awandkar and Shrikrishna Yawale
2.	181	Experimental Studies on Pond Ash Materials in the Proportion with Blast Furnace slag	Harshal Nikhade, Utkarsh Bobde, Khalid Ansari and Sneha Hirekhan
3.	219	The effect of MoS ₂ interlayered silica-polyaniline hybrid surfaces for the photomineralization of organic dyes	Sirajudheen Palliyalil, Sivakumar Vigneswharan and Sankaran Meenakshi
4.	276	Characteristics Study on Dissimilar Friction stir welded AA6082 & AA2014 weldments	Thilagham K T, Jamuna Ravichandran and Mohanraj Manoharan
5.	322	Influence of Compaction Pressure and Sintering Time on Characteristics of Nickel Based Super alloy	Geetika Salwan, Rayapati Subbarao and Subrata Mondal
6.	342	A review of microstructure, mechanical properties, and welding of SS316L	Dipali Bhoyar and Dr.Nischal Mungle
7.	384	Synthesis, characterization and optical studies of Cd-doped silver nanoparticles using aqueous extract of Gmelina philippensis Cham.	Nida S Shaikh, Mashooq Ahmed Wani, Rahimullah S Shaikh and Zakir S Khan

Day 1 – 02.02.2023 (03:00 PM to 5:00 PM)

TECHNICAL SESSION – II
TRACK- 7: MANUFACTURING

Join Meeting Link:- <https://meet.google.com/tba-nxoi-poy>

Session chairs:

Dr. Naveen Kumar, IIT, Delhi, India

Dr. Avinash Thakre, VNIT, Nagpur

Session Coordinator: Dr. G. M. Dhote (9823080333) (10408@yccc.in)

S. No	Paper ID	Paper Title	Authors
1.	13	Optimization of Tuning Frequency to Increase the Efficiency of Damped Dynamic Vibration Absorber	Amit Bhende
2.	129	Identification of Service Quality Parameters for the Indian Automobile Service Industry.	Mangesh Jadhao, Arun Kedar and Ramesh Lakhe
3.	227	A review on effects of cryotreatment on tungsten carbide tools and its expected outcome in micromachining.	Narendra Bhople, Narayan Sapkal, Prateek Malwe, Dhiraj Deshmukh, Manoj Nikam and Srihari Notla
4.	274	Machining of Ti-6Al-4V by Using Micro Abrasive Jet Machine: An Experimental Investigation	Dr. Vinod V. Vanmore
5.	294	A Case study to Improve the Productivity of Ladle Gearbox Manufacturing	Pratheesh Kumar S, Rajesh R, Raashika R, Mohanraj R, Varunkumar T C, Kelvin Mark V and Lakshmanan A
6.	295	The Effect of Downstroke Angle of Attack on the aerodynamic performance of dragonfly during take-off	Shubham Tiwari and Sunil Chandel
7.	310	Design & Development of Waste Plastic Recycling Unit	Abhishek Dixit, Sumit Dhage, Mahesh Kavre and Ajit Khushwah
8.	407	Evaluation of performance of vibration signatures for condition monitoring of worm gearbox by using ANN	Raghavendra Barshikar, Prasad Baviskar and Dhiraj Deshmukh

Day 1 – 02.02.2023 (03:00 PM to 05:00 PM)

TECHNICAL SESSION II

TRACK-08: RENEWABLE ENERGY

Join Meeting Link:- <https://meet.google.com/tvp-fsie-iya>

Session chairs:

Dr. Manish Kumar, Israel Institute of Technology, Israel

Dr. Arunendra Tiwari, IIT Bombay, India

Session Coordinator: Dr. S. P. Kamble, (9922943438) (9339@yccc.in)

S. No	Paper ID	Paper Title	Authors
1.	95	Experimental Investigation on performance characteristics of the diesel engine and use of Ceo2 as nanoparticles blend with biodiesel.	Prakash Kadam, Dhananjay Dolas and Ravikant Nanwatkar
2.	98	Direct Liquid Fuel Cell: Challenges & Advances	Ashish Umalkar, Rajkumar Chadge, Jayant Giri and Naveen Shrivastava
3.	255	Energy and Cost Saving Potentials of agricultural crop residues as alternative fuel: A Indian cement plant case study	Prashant Sharma, Arun Kumar Sharma, Vivek Gedam, Murali Krishna M and Dr.S.V.H. Nagendra
4.	314	Initiatives for Solar Powered Agriculture by Indian Government	Nivedita Padole, Ravindra Moharil, Ankita Wasankar and Vignesh Pillai
5.	337	Implementation of origami application in a solar panel system: A review	Ninad Jawajwar, Sakshee Tembhurkar, Parimal Pawar and Devendra Shahare
6.	360	Experimental Analysis of Solar Powered Proton Exchange Membrane Electrolyzer and Fuel Cell System	Rajesh Bodkhe, Rakesh Shrivastava, Vinod Kumar Soni and Rajkumar Chadge
7.	462	Design of Energy Storage and Transfer System for Solar Cooking	Tharesh Gawande and Dilip Ingole
8.	404	Numerical Study on the Effects of Additional Dimethyl Ether into Intake Manifold on Exhaust Pollutants and Performance of Marine Diesel Engine	Cong Doan Nguyen

Day 1 – 02.02.2023 (12:00 PM to 02:00 PM)

TECHNICAL SESSION II

TRACK- 9: CIVIL ENGINEERING

Join Meeting Link:- <https://meet.google.com/jrw-zkjj-pax>

Session chairs:

Dr. Davis Jose, RWTH Aachen University, Germany

Dr. Zain Kangda, Reva University, Bangalore

Session Coordinator: Prof. Y.Y. Nandurkar, (9975103671) (9650@yccc.in)

S. No	Paper ID	Paper Title	Authors
1.	27	Experimental investigation on the use of new generation waste material in concrete for M-50	Pawan Hinge and Dr.Tushar Shende
2.	87	Design and Fabrication of Modular, Light Weight Bridge Structure for Crevasse Crossing in High Altitude Areas	Vinay Ugale and Suresh Madhavan
3.	114	Experimental Analysis Of Compound Material Combination Of Concrete-Steel Beams using Non-Symmetrical And Symmetrical Castellated Beams Structures	Harshvardhan Ghongade
4.	218	Developing The Pervious Concrete Using Industrial Waste For Water Filtration	Sanket Kalamkar and Sanjay Raut
5.	315	Analysis and design of precast RCC box.	Sushama Jibhenkar and Sneha Hirekhan

Day 1 – 02.02.2023 (03:00 PM to 05:00 PM)

TECHNICAL SESSION II

TRACK- 10: MODELLING & SIMULATION

Join Meeting Link:- <https://meet.google.com/tug-efze-qst>

Session chairs:

Dr Abhra Roy Chowdhary, IISc Bangalore, India

Dr Tushar Dandekar, IIT, Bombay, India

Session Coordinator: Prof. D.N. Kashyap (9503133009) (9156@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	21	Metal Inert Gas Cladding Simulation and Residual Stress analysis of Mild Steel	Arka Banerjee, Rajeev Ranjan, Manoj Kundu and Subhas Chandra Moi
2.	92	Numerical Modal and harmonic analysis using Viscoelastic Material	Gaurav Sharma, Dr Sangram K Rath, Dr Adepu Kumaraswamy and Dr Debdatta Ratna
3.	119	Analysis Of Impact Of High Velocity Projectile On Layered Configuration Armour Materials	Divyanshu Morghode
4.	135	Simulation and Experimental Analysis of Lithium ion battery and Super capacitor Hybridization for EV	Ravikant Nanwatkar, Deepak Watvisave and Aparna Bagde
5.	138	Comparative analysis of NACA 0015 airfoil with bump using CFD	Aditya Solanki, Shashank Jibhakate, Vivek Mahadule and Yash Belekar
6.	264	Vibration analysis of advanced healthy and damaged rail - a step towards fault detection	Vyankatesh P Bhaurkar, Ajaykumar G Thakur, Laxmikant S Dhamande and Harshal P Varade
7.	283	Numerical based study of projectile spinning effects undergoing normal impact	Pranay Vaggu and S K Panigrahi
8.	521	2D-Thermal Exchange Assessment past Backward-Facing step inside a Rectangular Channel using LBM-MRT Method	Mostafa Amine Elouazzani, El Bachir Lahmer, Jaouad Benhamou, Mohammed Amine Moussaoui and Ahmed Mezrhab
9.	528	Design, Analysis and Simulation of a Hydro-Pneumatic Suspension system for a Quarter Car Model with Two degrees of freedom	Ajay Sharma, Prem Narayan Vishwakarma and K Kedar

Day 2 – 03.02.2023 (12:00 PM to 02:00 PM)

TECHNICAL SESSION – III

TRACK-11: MANUFACTURING

Join Meeting Link:- <https://meet.google.com/bwt-ebrr-yiu>

Session chairs:

Dr. Pravin Kumar, IIT, Bombay, India

Dr. Mangesh Phate, AISSMS, College of Engineering Pune

Session Coordinator: Dr. P. D. Kamble (9922407255) (9487@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	84	A review on electrical discharge machining of aluminium metal matrix composite materials.	Prajwal Chamat, Tushar Motghare, Shreyash Borghare, Aaradhya Wange and Md. Sharique Tufail
2.	91	Overview of gravity die casting process parameters affecting product quality	Vishal Dhore and Lalit Toke
3.	125	Potential of Nanofluid based Minimum Quantity Lubrication in machining difficult-to-cut materials: A review on the perception of Sustainable Manufacturing	Amol Vadnere and Shyamkumar Kalpande
4.	161	Experimental Research on the Influence of FDM Parameters on Impact Strength, Tensile Strength, and The hardness of Parts Made of Polylactic Acid for Optimisation	Javed Dhalait and Vishvajeet Potdar
5.	163	Competency Model For The Strategic, Tactical and Operational Level Employees for Industry 4.0	Subbulakshmi Somu and Roopashree Rao
6.	268	Efforts to Improve the Brand Value of Beverage Industry Using Six Sigma Methodology	Pratheesh Kumar S, Naveen Anthuvan R, Anand K, Mohanraj R, Arunkoushik R and Saran V
7.	269	Implementation of Six Sigma to Improve Service Quality and Customer Satisfaction in E-commerce Industry	Pratheesh Kumar S, Rajamani R, Maharasi P B, Mohanraj R, Morsshini K, Nitis Prabhu M and Pachaiyappan V
8.	439	Investigations on Material Removal Rate of Copper Electrodes Coated with Reduced Graphene Oxide for Electric Discharge Machining	Suraj Patil, Maharudra Patil, Raviraj Kulkarni and Vinayak Malik

Day 2 – 03.02.2023, 12:00 PM to 02:00 PM

TECHNICAL SESSION III

TRACK- 12: CIVIL ENGINEERING

Join Meeting Link:- <https://meet.google.com/zsx-ksdc-kwh>

Session chairs:

Dr. Md Saifuddin, Hanyang University, South Korea

Dr Dilip Lataye, VNIT, Nagpur, India

Session Coordinator: Prof. Prasad Hatwalne (9096273285) (10435@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	60	Experimental Investigation Of Copper Slag As A Partial Replacement Of Natural Sand In Concrete	Amruta Yadav, Ajay Gajbhiye and Pranita Bhandari
2.	80	Effect of Chemical Admixtures on the Hardened and Durability properties of Concrete	Kuruba Chandraprakash, Muhammed Zain Kangda, Mohammed Aslam, Divyarajsinh M. Solanki and Sandeep Sathe
3.	89	Effect of Confinement on Tension Stiffening Effect of RC Beams subjected to Flexure	Sumant Kulkarni, Mukund Shiyekar, Sandip Shiyekar and Zain Kangda
4.	127	Light transmitting concrete - A systematic review of research trends	Manoj Kumar Rajak, Ravish Kumar, Rahul Biswas and Sinam Hudson Singh
5.	168	Numerical study on performance of Raft Foundation resting on Stone column reinforced soft-clay subjected to eccentric load	Asheequl Irshad and Siddhartha Mukherjee

Day 2 – 03.02.2023 (12:00 PM to 02:00 PM)

TECHNICAL SESSION III

TRACK- 13: MODELLING & SIMULATION

Join Meeting Link:- <https://meet.google.com/pbf-xhgk-nez>

Session chairs:

Dr. Kishor Shingare, IIT ,Bombay

Dr. Alankrita Singh, IIT Roorkee

Session Coordinator: Dr. G. M. Dhote (9823080333) (10408@yccc.in)

S. No	Paper ID	Paper Title	Authors
1.	11	Force Transmissibility Analysis of a Magneto-rheological Damper	Prashant Narwade, Ravindra Deshmukh and Mahesh Nagarkar
2.	174	Review on parameters affecting Chatter in thin Plates	Dheeraj Lengare and Dr. Dilip Pangavhane
3.	213	A Comprehensive approach in Design and Analysis of GO-KART.	Akshay Anjekar and Shubhangi Gurway
4.	440	Design and Analysis of Electric Two-wheeler Alloy Wheel	Sumitkumar Tulshidas Bambole, Dr. Imran Ahemad Khan and Himanshu Suresh Dhandre
5.	441	Empirical Modeling for Solar Radiation Prediction in F-Solve Optimization Technique	Veeresh G Balikai, M B Gorawar, Rakesh Tapaskar, P.P. Revankar, P.G. Tewari and Vinayaka H. Khatawate
6.	469	Numerical Investigations for Smoke Movement In Industrial Shed With C Shaped Collection Channel	Ashvin Amale, Neeraj Sunheriya, Jayant Giri, Rajkumar Chadge, Sachin Mahakalkar, Pratik Lande and Abhiram Dapke
7.	485	Robust control of Inverted Pendulum on inclined rail at different angle of inclinations via PID controller	Dr. Ashwani Kharola, Shalu Garg, Varun Pokhriyal, Anuj Raturi, Syed Farrukh Rasheed and Ajay Kumar

Day 2 – 03.02.2023 (03:00 PM to 5:00 PM)

TECHNICAL SESSION – IV
TRACK-14: MATERIALS

Join Meeting Link:- <https://meet.google.com/arw-zviv-uwf>

Session chairs:

Dr. Appu Vinod, Ben Gurion University of the Negev, Israel

Dr. Abhishek Sharma, Osaka University, Japan

Session Coordinator: Dr. P. D. Kamble (9922407255) (9487@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	37	Investigation of Mechanical Properties of Nitrided-microblasted and TiCN coated D3 Tool Steel	Santosh Bhaskar, Dhiraj Bhaskar, Amjad Shaikh, Pankaj Patil, Jalees Ahemad and Mahesh Nagarkar
2.	363	Optimization of Abrasive and Corrosion Behavior of AA2218 reinforced with Si ₃ N ₄ / Al ₂ O ₃ /ZnO ₂ Hybrid composites	S Nanthakumar, V M Madhavan, A G Dr. Karthikeyan, R Dr. Jayaraman, P Muruganandhan and R Girimurugan
3.	388	Impact of concentration of Polyacrylonitrile on electrochemical performance of Carbon Nanofibers	Diptee Jamkar, Hemlata Ganvir, Renuka Mahajan and Pavan Kumar
4.	436	Critical Review on Weldability of 316 Austenitic and 410 Martensitic Stainless Steel	Aditya Thaware, Sachin Ambade, Prachi Gawande, Radhika Katyarmal, Taha Josh and Sagar Shelare
5.	443	Experimental and Numerical Investigation of High-Density CNTs and Epoxy-BNNT Composites	Shubham Kumar, Gaurav Arora and Mohit Kumar
6.	458	Experimental Investigation of Shear Strength of Adhesively Bonded Lap Joint for Dissimilar Material and its Validation Using Taguchi and ANN approach	Pratik Lande, Neeraj Sunheriya, Rajkumar Chadge, Jayant Giri and Chetan Mahatme
7.	474	A comprehensive review on effective selection of metallic, polymeric and ceramic crown in dentistry	Shiv Ranjan Kumar Rishika Mehani and Gourav Bhansali
8.	487	A review on polymer matrix composites used in automobile applications	Mahboob Amin and Chetan Swaroop

Day 2 – 03.02.2023 (03:00 PM to 05:00 PM)

TECHNICAL SESSION IV

TRACK-15: THERMAL ENGINEERING

Join Meeting Link:- <https://meet.google.com/uut-codn-ztq>

Session chairs:

Dr. Pradeep Gupta, IISC, Bangalore, India

Dr. Ojas Satbhai, IIT Bombay, India

Session Coordinator: Prof. N. D. Gedam (9404277061) (9726@ycce.in)

S. No	Paper ID	Paper Title	Authors
1.	111	Role of Biopolymers in Drag Reduction Enhancement of Flow – A review	Prashant Baghele and Pramod Pachghare
2.	149	Toxicity Sustainable Control over Non-Exhaust Pollution	Sachin Jadhav and Sanjay Sawant
3.	258	A Review on the Application of Twisted Tube Heat Exchanger with Nano-fluids as a Coolant in Automobile Radiator	Md Naushad Alam and Dr. Akash Langde
4.	271	A Review on The Hydro Dynamic Analysis of Fluidization Of Nano Particles Using Vibrations	Khwaja Izhar Ahmad and Dr. Akash M Langde
5.	279	Effects of nanoparticles on emission control of IC Engine– a review	Govind Murari, Binayaka Nahak and Tej Pratap
6.	280	Numerical Analysis of a Blunt Body at Very High Reynolds Number for the Application on Ejection Seat System	Md. Mahbubur Rahman, Vaibhav Anant Bandal, Sunil Chandel and D. G. Thakur
7.	327	Experimental and Numerical Investigation of Vertical Equi-section water charged Gravity-Assisted Heat Pipe for different heat input and fill ratio.	Devendra Shahare, Saurabh Sarkar and Harshu Bhimgade
8.	300	Numerical investigations on the effect of rib thickness on the thermo-hydraulic performance characteristics of the solar air heater	Sanjay Sharma, Vilas Kalamkar, Viplove Ganguly, Rohan Pande and Abhishek Jha

Day 2 – 3.02.2023, 03:00 PM to 05:00 PM

TECHNICAL SESSION IV			
TRACK-16: INTERDISCIPLINARY			
Join Meeting Link:- https://meet.google.com/jag-rmnr-gma			
Session chairs:			
Dr. S. S. Chaudhari, YCCE, Nagpur			
Dr. S. R. Jachak, YCCE, Nagpur			
Session Coordinator: Prof. S S Nagpure (9975403709) (9867@ycce.in)			
S. No	Paper ID	Paper Title	Authors
1.	24	Solution of Goal Programming using Alternative Approach of Dual Simplex Method	Monali Dhote and Girish Dhote
2.	42	Ergonomic Arm Rest for Comfortable Drive in a Passenger Car	Rajesh R, Vijay S, Aswin T M, Dhanush Prabakaran S, Dharshika S and Dhanushsree Krishna Vaishnavi B
3.	48	Explicit Finite Difference Approach on Multi-Dimensional Wave Equation with Constant Propagation	Malabika Adak, Akshaykumar Meshram, Anirban Mandal and Rajendra Rewatkar
4.	204	Ex Vivo Experimental Needle Insertion Force Model For Minimally Invasive Surgery	Ranjit Barua, Surajit Das, Amit Roychowdhury and Pallab Datta
5.	251	Law Relating to Health and Healthcare: A Systematic Mechanism and Critical Study with Reference to Bangladesh	Md. Kamruzzaman, Inderpreet Kaur and Md Helal Miah
6.	320	A Review of role of Information and Communication Technology, Knowledge Management to enhance organizational performance in manufacturing sector along the supply chain	Shivanand Prabhuswamimath, Mahantesh Halagatti, Adarsh Patil, Vinayak Banakar and Chetan Hiremath
7.	374	Low Power Analog Four-Quadrant Multiplier Based on Dynamic Threshold MOSFET	Ankita Tijare, Aniket Pathade and Kuldeep Pande
8.	416	Formulation and Optimization of Mathematical Model of Relationship between Organizational Performance and TQM practices in Indian industry	Arun Kedar, Sunil Prayagi and Yogesh Deshpande
9.	472	A Study on Mobile based NBFC Catering towards Rural Indian customers special reference to Igatpuri district in Maharashtra	Abdul Khalid and Dr. H Sankaran
10.	525	Power Enhancement in Solar PV Configurations Under Partial Irradiation Scenarios using FSD method	Jagadeesh K and Chengaiah Ch
11.	357	Vehicle vibrations and their effects on the human body	Apurva Weike, Girish Mehta, Sagar Shelare