



MATURI VENKATA SUBBA RAO (MVSR) ENGINEERING COLLEGE

(DEPARTMENTS OF AUTOMOBILE ENGINEERING & ELECTRICAL AND ELECTRONICS ENGINEERING)

CONDUCTS

TWO DAY NATIONAL CONFERENCE

ON

“ENGINEERING MATERIALS, AUTOMOTIVE TECHNOLOGIES & ELECTRICAL MOBILITY”

(NOVEMBER, 17TH& 18TH 2023)

Online session

Time: 2:00 PM to 4.00 PM

Venue: Online

Total No of Papers: 03

Date : 17/11/2023

S.No	Paper Code	Title	College	Author	Session	Time
1	EMATEM/2023/ Online /006	A Comprehensive Review Of Current Developments On The Natural Fibre Reinforced Polymer Matrix Composites For Automotive And Sports Application: Materials, Processes And Properties.	Sahayadri	Sunil H V, E Basavaraj,	Online	2:40 - 3:00 PM
2	EMATEM/2023/ Online/017	Design And Analysis Of A Magnetic Shock Absorber	Gaya Engg college	Mohd Rafeeq Ur Rahman,2 Shaik Ashraf,3* Md. Asif Equbal,	Online	3:00 - 3:20 PM
3	EMATEM/2023/ Online /023	Experimental Investigation On Fuel Filter System Of Diesel Engine For Material Compatibility With Waste Cooked Oil Biodiesel	Solapur Engg College	1Dr.Rajesh Gurani , 2Malikasab Bagawan, 3Prashant Tadalagi, 4Naveen G. Patil	online	3:20-3:40 PM

Chair: Dr. U. Ashok

Co-Chair: Dr. B. Ravi Kumar

Co-Ordinator: Mr. Malikasab L Bagawan



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Session-I

Time: 2:00 PM to 4.00 PM

Venue: MED Conference Hall

Total No of Papers: 06

Date: 17/11/2023

S.No	Paper Code	Title	College	Author	Time
1	EMATEM/2023/007	Manufacturing And Topology Optimization On Orthopaedic Calliper For Medical Devices	Aurora	khaja afnan hussain, affan hussain, chandrashekar, pranav ravindra nair	2:00-2:20 PM
2	EMATEM/2023/008	Influence of fiber reinforcement and FDM parameters on mechanical characteristics and product quality: A Review	JNTUH	Mohd Yousuf Ali a, *, G. Krishna Mohana Rao b, B. Anjaneya Prasad b	2:20-2:40 PM



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(NOVEMBER, 17TH& 18TH 2023)

Session-I (Contd...)

Time: 2:00 PM to 4.00 PM

Venue: MED Conference Hall

Total No of Papers: 06

Date: 17/11/2023

S.No	Paper Code	Title	College	Author	Time
3	EMATEM/2023/010	Evolution And Mainstream Applications Of Smart Materials: A Review On Shape Memory Alloys	MVSR	1Sadan Kanchanapalli, Dr. B. Suresh Kumar Reddy,	2:40-3:00 PM
4	EMATEM/2023/018	Evaluation Of Drivers Seating Posture By REBA Analysis	MVSR	M.Pandarinath 1* , T. Ramamohan Rao 2 , SriramVenkatesh	3:00-3:20 PM
5	EMATEM/2023/020	Effect Of Electron Beam Oscillation On Evolution Of Microstructure In Ti6Al4V Alloy Weldments	MVSR	G Saidulu, Shri Brijesh Patel, Earla Sri Vidya, Yadagiri Amshitha	3:20-3:40 PM
6	EMATEM/2023/022	Experimental Investigation On Super Ni 90 Super Alloy Using Al 7178 Tool On EDM Under Blended Di Electric Variant With Deep Learning Approach	MVSR	1 G.Sravan Kumar,2 Dr.S.Gajanana,3 Dr.L.Siva Rama Krishna,	3:40-4:00 PM



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Chair: Dr. S. Gajanana

Co-Chair: Dr.E. Madhusudhan Raju

Co-Ordinator: Mr. R. Pranav

Session-II

Time: 2:00 PM to 4.00 PM

Venue : QEEE Conference Hall

Total No of Papers: 04

Date : 17/11/2023

S.No	Paper Code	Title	College	Author	Time
1	EMATEM/2023/001	Space State Model Of Lateral Vehicle Motion For Stability	MVSR	Dr GS sharma, T.Muralimohan raju, Dr.G.lakshmi kameswari	2:00-2:20 PM
2	EMATEM/2023/004	Design And Analysis Of Double Wishbone Active Suspension System With Bell Crank.	MVSR	Fazel Hayatt Khan, Mudavath Rajesh Kumar, Mahankali Balachandar, Malikasab Bagawan, Nayak Pratyush, Pranav Ravindran Nair.	2:20-2:40 PM
3	EMATEM/2023/005	Analysis Of Conventional Ladder Chassis Frame	MVSR	Malikasab Bagawan, Tahmina Fatima, Vemula Haygriva,	2:40-3:00 PM



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Session-II (Contd...)

Time: 2:00 PM to 4.00 PM

Venue : QEEE Conference Hall

Total No of Papers: 04

Date : 17/11/2023

S.No	Paper Code	Title	College	Author	Time
4	EMATEM/2023/016	Dynamic Analysis On A Sub-Scaled Physical Model Of A 4-Ton Truck Composite Ladder Type Chassis.	MVSR	B. Sai Maanas, M. Madhavi, k. Karthik Rajasekar	3:00-3:20 PM

Chair: Dr. J. Kandasami

Co-Chair: Mr. T. Murali Mohan Raju

Co-Ordinator: Mr. M. Pandarinath



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Session-III

Time: 10:00 AM to 1:00 PM

Venue : MED Conference Hall

Total No of Papers: 06

Date : 18/11/2023

S.No	Paper Code	Title	College	Author	Time
1	EMATEM/2023/002	Solar Powered Proton Exchange Membrane Electrolyser For Hydrogen Production	MVSR	Dr GS sharma, Dr.G.V.Subbaiah, Dr.G.lakshmi kameswari	10:00-10:20 AM
2	EMATEM/2023/003	Evaluation On Physicochemical Properties And Performance Characteristics Of Biodiesel From Used Cooking Oil On Di-Diesel Engines	VNR	Suresh Devunuri, Shaik Amjad, GVL Prasad,	10:20-10:40 AM
3	EMATEM/2023/009	Sizing Of An Electric Power train Based On Urban Traffic Parameters And Hybridizing Of A Two-Wheeler	VNR	Shaik Amjad, Haren Sai Yerramsetti, Sri Aanshu singh Chowhan,	10:40-11:00 AM



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Session-III (Contd...)

Time: 10:00 AM to 1:00 PM

Venue : MED Conference Hall

Total No of Papers: 06

Date : 18/11/2023

S.No	Paper Code	Title	College	Author	Time
4	EMATEM/2023/014	On-Board Alcohol Detection System Using MQ3 Sensor	VNR	GVL Prasad, Shaik Amjad, G. Ravi Sai Hemanth,	11:00-11:20 AM
5	EMATEM/2023/021	Automated Toll Collection System Using GPS	VNR	GVL Prasad, Shaik Amjad, Katta Ganesh	11:20-11:40 AM
6	EMATEM/2023/024	Performance Evaluation Of VCR System Using TiO ₂ Nano Particles Injected Into The Lubricating Oil Of Compressor	MVSR	M.Ravi Kumar, Dr.R.Satya Meher, Dr.A.Swarna Kumari,	11:40-12:00

Chair: Dr. B. Hadya

Co-Chair: Dr. G.S. Sharma

Co-Ordinator: Mr. Malikasab L Bagawan



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Session-IV

Time: 10:00 AM to 1.00 PM

Venue: AED CAD/CAM Lab

Total No of Papers: 05

Date : 18/11/2023

S.No	Paper Code	Title	College	Author	Time
1	EMATEM/2023/011	Hydraulic Hammer Sheet Metal Forming Of Superni 718 Using Curve Edge Die	JNTUH	1 E.Hazyz, 2 Dr.S.Gajanana, 3 Dr.P.Laxminarayana, Dr.B.Ravikumar, D. Spandana,	10:00-10:20 AM
2	EMATEM/2023/012	Design And Analysis Of Integrated Frame Using Composite Material	MVSR	Tuniki Omkar, Batte Jai Rathan, Pranav Ravindran Nair,	10:20-10:40 AM
3	EMATEM/2023/013	Multi Optimization Of Friction Stir Welding Of Aluminium Aa 6061 Alloy Using Taguchi Grey Co Relation	MVSR	Tuniki Omkar, Batte Jai Rathan, Pranav Ravindran Nair,	10:40-11:00 AM



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Session-IV (Contd...)

Time: 10:00 AM to 1.00 PM

Venue: AED CAD/CAM Lab

Total No of Papers: 05

Date : 18/11/2023

S.No	Paper Code	Title	College	Author	Time
4	EMATEM/2023/015	Design And Finite Element Analysis Of Kinetic Energy Recovery System For Bicycle.	MVSR	Kagey Prakash 1 , Suchir Vengala 2 , Pranav Ravindrannair 3 , A Gnan Reddy	11:20-11:40 AM
5	EMATEM/2023/019	Analysis And Topology Optimization Of Chain Sprocket In ANSYS Workbench	MVSR	Mudavath Rajesh Kumar 1 , Fazel Hayatt Khan 1 , Mahankali Balachandar 1 , K Sushank Goud 1 , Malikasab Bagawan 1 , Pranav Ravindran Nair 1 , M. Vijay 2 .	11:40-12:00

Chair: Dr. Sheik Amjad

Co-Chair: Dr. M. Madhavi

Co-Ordinator: Mr. A. Gnan Reddy



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Session-V

Time: 10:00 AM to 1.00 PM

Venue: QEEE

Total No of Papers: 08

Date : 18/11/2023

S.No	Paper Code	Title	College	Author	Time
1	EMATEM/2023/E025	Harnessing Solar Energy For Green EV Charging Stations At Indian Highways	MVSR	1 Vivek Vuppala, 2 Dr. D. Hari Krishna	10:00 -10:20 AM
2	EMATEM/2023/E026	A Review Of The Evaluation Of Electric Vehicles	BVRIT	Ms.K.Bhavya,2Dr.P.V.V.Rama Rao,Ms.B.Sujatha,	10:20 -10:40 AM
3	EMATEM/2023/E027	Evaluating Different Electrical Models For Lithium-Ion Battery Analysis	Industry	Mr. B Sarveshwar Reddy Mr. B Amarender Reddy Mr. I Narasimha Swamy	10:40 -11:00 AM



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Session-V (Contd...)

Time: 10:00 AM to 1.00 PM

Venue: QEEE

Total No of Papers: 08

Date : 18/11/2023

S.No	Paper Code	Title	College	Author	Time
4	EMATEM/2023/E 028	Reactive Power Compensation Using Vehicle-To Grid Enabled Bidirectional Off-Board EV Battery Charger	MREC	D. Chandra Sekhar 1 , P. V. V Rama Rao 2 , A. Supraja 1	11:00 -11:20 AM
5	EMATEM/2023/E 029	Speed Control of BLDC Motor using Neural Network for EV Application	MVSREC	<i>Alampalli Sai Kumar ¹, Naresh Mallam ², Pathlavath Aravind ³, B.Ramakrishna ⁴</i>	11:20 -11:40 AM
6	EMATEM/2023/E 030	Power Factor Correction and Power Quality Improvement in BLDC Motor Drive using SEPIC Converter	MVSREC	H. Devanand 1 V. Joel Moses 2 T. Adarsh 3 K. Rajesh Kumar	11:40 -12:00



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Session-V (Contd...)

Time: 10:00 AM to 1.00 PM

Venue: QEEE

Total No of Papers: 08

Date : 18/11/2023

S.No	Paper Code	Title	College	Author	Time
7	EMATEM/2023/E03 1	Enabling EV Charging at varied locations using Smart Meters	MVSREC	1 Ankith Rama, 2 Dr. D. Hari Krishna, 3 Shreya Gampa, 4 Jhanavi Puli,	12:20 -12:20 PM
8	EMATEM/2023/E03 2	Parameter determination – Mathematical model of Proton Exchange Member Fuel cell (PEMFC) using Big Bang Big-Crunch (BB-BC) optimization	MVSREC	cvgk rao	12:20 -12:40 AM



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Chair: Dr. Y. Mastanamma Co-Chair: Dr. D. V. M. Chary, Mr. Y. Laxmi Narasimha Rao Co-Ordinator: Mr. K. Rajesh Kumar

Session-VI

Time: 10:00 AM to 1.00 PM

Venue: MED CAD / CAM Lab

Total No of Papers: 0

Date: 18/11/2023

S.No	Paper Code	Title	College	Author	Time
1	EMATEM/2023/033	Comparative Studies on Performance of 3D-Printed Metal Electrode and Conventional Electrode in Electrical discharge Machining on Ti-alloy	UCEOU	1 U Ashok Kumar, 2 P. Anurag, 3 K. Keerthana Reddy, 4 K. Laxmi yashwanth	10:00:10:20 AM
2	EMATEM/2023/034	GEOMETRICAL CHARACTERISTICS OF KERF WIDTH ON TITANIUM ALLOY BY ABRASIVE WATER JET MACHINING	UCEOU	U Ashok Kumar, P.Anunay, G.Sai Seemanth, M Bala Gangadhar Tilak	10:20:10:40 AM
3	EMATEM/2023/035	Computer Aided Analysis of Phase Change Material [PCM] Based Battery Thermal Management System	UCEOU	Vemula Haygriva, Tahmi na	10:40:11:00 AM



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			Fatima, Malikasa b Bagawan,	
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Session-VI (Contd...)

Time: 10:00 AM to 1.00 PM

Venue: MED CAD / CAM Lab

Total No of Papers: 08

Date: 18/11/2023

S.No	Paper Code	Title	College	Author	Time
4	EMATEM/2023/036	PREDICTING THE TENSILE BEHAVIOUR OF AA7075 ALLOY PROCESSED THROUGH POWDER METALLURGY PROCESS	MVSREC	J. Kandasamy G. Prakasham Md. Fayazuddin	11:00:11:20 AM
5	EMATEM/2023/037	Fabrication of electric All-Terrain Vehicle	VNR	D Suresh, G Udhvik, Navtej	11:20 : 11:40
6	EMATEM/2023/038	Optimisation of Overcut and Taper angle in EN-31 Steel Holes by Electrical Discharge Drilling Process	UCEOU	M.Prakash, Dr. Lachiram, Dr.P.Laxminara yana,	11:40 : 12:00



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Session-VI (Contd...)

Time: 10:00 AM to 1.00 PM

Venue: MED CAD / CAM Lab

Total No of Papers: 08

Date: 18/11/2023

S.No	Paper Code	Title	College	Author	Time
7	EMATEM/2023/039	Friction Surfacing Additive Manufacturing: A Versatile Process for Coating Metals	UCEOU	<i>U Ashok Kumar, Suhail Ahmad Sheikh, Urgan Stopgail, Santhoshini,³ Reshma</i>	12:00 - 12:20
8	EMATEM/2023/040	Thermal management of avionic packages	RCI, MVSREC	K Velmurugan, S Ramanathan, Jawad Abdul Jaleel Mohammad, J V Shanmukha Sri Sriram, Nitin Chaitanya Prahasith Maddury, Mohd. Abdul Mukheet	12:20 : 12:40



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Session-VI (Contd...)

Time: 10:00 AM to 1.00 PM

Venue: MED CAD / CAM Lab

Total No of Papers: 08

Date: 18/11/2023

9	EMATEM/2023/041	Performance analysis of solar absorber plates and glazings used in flat plate collectors and solar cookers	CJITS, OUCE	Dr.K.Yakoob1*, Dr.U. Ashok Kumar 2	12:40 : 1:00
10	EMATEM/2023/042	Recent Developments in Battery Thermal Management System in Electrical Vehicles	OUCE	Mohammad Zafar Anwar, Dr. Boda Hadya	1:00 : 1:20

Chair: Dr. U. Ashok

Co-Chair: Mr. M. Pandarinath

Co-Ordinator: G. Saidulu