

# Nagarjuna College of Engineering & Technology, Bangalore

## IETME2014

### INTERNATIONAL CONFERENCE ON INNOVATIONS AND EMERGING TRENDS IN MECHANICAL ENGINEERING

#### List of Accepted Papers (Oral / Poster Presentation)

#### Session : 1 Thermal Sciences (Coordinator : Prof.L.Jullya Naik, 9945793180)

Sl. No	Name of the Author	Title of the Paper	Name of the College	Paper No
1	Dayananda Sagar.B.L. Dr.H.S.ShivaShankar Ravi S.D Mohamed Faiz ahamed	Flow mixing analysis for carburetor with low energy density gases using CFD	Siddaganga Institute of Technology, Tumkur	IETME2014 /NCET/T-1
2	Naveen. B, Praveen. D	CFD Analysis of Turbocharger Turbine	AIT, Chikmagalur	IETME2014 /NCET/T-2
3	Nagaraj .B. Buseri Dr.E.S.Prakash	CFD Analysis of flow characteristics of exhaust manifold and effect of back pressure on engine performance	UBDTCE-Davanagere	IETME2014 /NCET/T-3
4	Mohamed Faiz Ahamed	Effect of Inlet Jet Injection Angle and Outlet position on a Calandria Based Reactor – An Investigation with Numerical Analysis of Heat & Mass Transfer for an Optimum Reactor Design	SIT,Tumkur	IETME2014 /NCET/T-4
5	Umesh Jangamashetti Manoj Kiran K A M Mulla	Experimental study on enhancement of tube side heat transfer coefficient and pressure drop using soldered wire wound turbulators as tube inserts	Department of PG Studies,VTU Gulbarga	IETME2014 /NCET/T-5
6	Umesh Jangamashetti Manoj Kiran K A M Mulla	Experimental study on performance of shell and tube heat exchanger using baffled twisted tapes as tube inserts	Department of PG Studies,VTU Gulbarga	IETME2014 /NCET/T-6
7	Chethan B S	Experimental study on condensation heat transfer inside a square channel in horizontal flow	Alpha College of Engineering	IETME2014 /NCET/T-7
8	Ashwani Upadhyay Chandramohan V.P	Simultaneous solution of heat and moisture transfer during convective drying of building material	NIT Warangal Andhra Pradesh	IETME2014 /NCET/T-8
9	Ch. Sreenivasa Rao AVSSKS Gupta K.Rama Narasimha	Parametric investigation on the thermal performance of closed loop pulsating heat pipe	JNTU college of Engg., Hyderabad, A.P, Centre for Emerging Technologies, Jain University, Bengaluru	IETME2014 /NCET/T-9

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10	Prasanna Shankara R Dr.E.S Prakash	Computer simulation of heat transfer characteristics of finned tube heat exchanger using system CFD (Flownex)	UBDTCE-Davanagere	IETME2014 /NCET/T-10
11	Sarfarazali A Khazi V.S Yaliwal	CFD Simulation of Spark Ignited Engine for Gaseous Fuel with Different spark Time.	SDM College of Engineering and Technology, Dharwad	IETME2014 /NCET/T-11
12	Praveen Kumar K, Lohith N Manu S	Experimental investigation of Heat Transfer coefficient and pressure drop inside Horizontal Mini Triangular Channels	Siddhartha institute of technology, Tumkur,	IETME2014 /NCET/T-12
13	Sunil.B.S, Manu.S, C V. Mahesh, T.K. Chandrashekar	Study of approaching temperature on the performance & size of LiBr-Water absorption using water as coolant	S.I.T, Tumkur	IETME2014 /NCET/T-13
14	Narendra R	CFD simulation and performance testing of producer gas internal combustion engine	A.I.T Chikmagalur	IETME2014 /NCET/T-14
15	LIKHITH N BHARAT P.C PRAVEEN KUMAR A	Study of performance and emission characteristics of diesel engine fueled with waste cooking oil biodiesel	Amrita Vishwa Vidyapeetham	IETME2014 /NCET/T-15
16	Ravichandra Koti Dr.S.B.Prakash	Performance and exhaust emission characteristics of titanium oxide coated vcr diesel engine fuelled with mixed milk scum and safflower oil as biodiesel	Sri Sai Vidya Institute of Technology	IETME2014 /NCET/T-16
17	Raghavendra Rao R	Wall temperature analysis of combustor for producer gas application using CFD	SIT, Tumkur	IETME2014 /NCET/T-17
18	a. Gowrishankar.T.P b.Manu.S c.Vijaykumar.M.Patil	Experimental investigation of single phase heat transfer in a rectangular minichannel heat sink	a.RLJIT, Dodballapur b.SSIT,Tumkur c. NCET Devanahalli	IETME2014 /NCET/T-18
19	Vijayakumar G Tile	Numerical Analysis of Internal Combustion Engine for Producer Gas Application with moving mesh approach using CFD	SIT, Tumkur	IETME2014 /NCET/T-19
20	V. Bharath	CFD simulation of airflow and temperature distributions in a naturally ventilated bi-span greenhouse	Dept. of Mech Engg, SDMCET, Dharwad- 580002	IETME2014 /NCET/T-20
21	Gunesh N Ravnkar,	Mathematical modelling & heat	NMITK,	IETME2014

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	Chethan K S, Kiran Aithal S	transfer study of centrifuge casting technique	Bangalore	/NCET/T-21
22	Manjunath A C <sup>1</sup> , Dr. S.K. Maharana <sup>2</sup>	Numerical Analysis of Heat Transfer during Jet Impingement on Curved Surfaces	MVJCE, Bangalore	IETME2014 /NCET/T-22
23	Megharaja B S <sup>1*</sup> , C N Nataraj <sup>2</sup>	Numerical, analytical and experimental investigation on thermal behaviour of engine piston	UBDT, Davangere	IETME2014 /NCET/T-23
24	Anup T J, Vilas watve	Waste plastic pyrolysis oil as alternative fuel for ci and si engines	AIT, Chikmagalur	IETME2014 /NCET/T-24
25	Ganesha.G.P, L.Krishnamurthy, Prakash.S.Kulkarni	Virtual prototyping method of analysis of Lattice fins design on a generic missile using CFD simulation	NIE, Mysore	IETME2014 /NCET/T-25
26	Gokuldas M, Vinay S S	CFD Simulation and Performance Analysis of Lean Burn Engine	GEC Hassan	IETME2014 /NCET/T-26
27	Shivachandra hindinamani, Santhosh .G	Power quality enhancement on grid integrated wind energy system with the help of STATCOM	NMAM institute of tech, Nitte	IETME2014 /NCET/T-27
28	N. Dhakshayani, V.Ramesh, K.S.Shashishekar	Study of flow features over an external aerofoil flap	S.I.T, Tumkur	IETME2014 /NCET/T-28
29	Ravi H.K, Dr.K.S.Aprameya	Low voltage ride through capability of wind power generation with DFIG wind turbine	UBDT Davangere	IETME2014 /NCET/T-29
30	Ronald regon.R, Basil jacob, Dr. S.George	Study of natural convection heat transfer in vertical mounted rectangular finned heat sinks	SSIT Tumkur	IETME2014 /NCET/T-30
31	Manjunath C B, C N Nataraj, Dr. Sanjeevmurthy	Performance and Emission Analusis of modified piston Diesel Engine Fuelled with Diesel and Simarouba	UBDT Davanagere	IETME2014 /NCET/T-31
32	Basavaraj C.C Shankarnag G L S George Milton	Experimental investigation of heat transfer by natural convection in inclined heat sinks	SSIT Tumkur	IETME2014 /NCET/T-32
33	Suchitkumar A N S George Milton Shankarnag G L	Study of Natural Convection Heat Transfer from Horizontally Oriented Heat Sink	SSIT Tumkur	IETME2014 /NCET/T-33
34	Somesha., G.H. T.B. Prasad	Experimental investigation of heat transfer enhancement in circular tube with pin fin element	SSIT Tumkur	IETME2014 /NCET/T-34
35	Jitendra Singh Pal, Prasad R Godbole, Prof H.M. Dange	Numerical Analysis of Low Pressure Fresh Water Generator Diffuser	P.V.P.I.T Budhgaon	IETME2014 /NCET/T-35

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### **Session : 2 Design Engineering** (Coordinator : Prof.Vivek K.T, 9738509422)

Sl. No	Name of the Author	Title of the Paper	Name of the College	Paper No
1.	Praveen Siddappa, Basavanayakar	Stress analysis of friction stir welding tool	BIT Bangalore	IETME2014/NCE T/D-1
2.	Shrivathsa T.V	Study of sound pressure level, design and development of noise attenuation of blanket	BIT Bangalore	IETME2014/NCE T/D-2
3.	Swapnil S. More	Finite element modelling for analysis of structures subjected to blast loading	Dayananda Sagar College of Engineering, Bangalore	IETME2014NCET /D-3
4.	Dayananda A.C, Mahesh G.S, Lakshminarayana H.V	Investigation of an aircraft landing gear axle with surface cracks	Dayananda Sagar College of Engineering, Bangalore	IETME2014/NCE T/D-4
5.	Kiran K Amate, Sridhar R, Gangadhar Angadi, H NarasimhaMurthy	Design, fabrication and testing of buckling test rig for under water pressure shells	R V collage of engineering, Bangalore 560059 India.	IETME2014/NCE T/D-5
6.	Dr. Sathish Babu B, Narasimha murthy	Stiffness calculation of car camber link to improve the buckling strength	East West institute of technology, Bengaluru	IETME2014/NCE T/D-6
7.	M. Vamsi Krishna, M.Anthony Xavior	An investigation on the mechanical properties of hybrid metal matrix composites	M.I.T.S, Madanapalle, Chittoor Dt.Andhra Pradesh.	IETME2014/NCE T/D-7
8.	Chethan I.C	Fatigue crack growth analysis of a wing stiffened panel	Adichunchanagiri Institute of Technology, Chikmagalur	IETME2014/NCE T/D-8
9.	N Dhakshayani	Study of flow features over an external aerofoil flap	SIT Tumkur	IETME2014/NCE T/D-9
10.	Prashant Hiremath	Modelling and analysis of multi bearing spindle system	BITM Bellary	IET/NCET/D-10
11.	Nikhil S S	Stress analysis of front pressure bulkhead of the fuselage structure and fatigue life estimation	Adichunchanagiri Institute of Technology	IETME2014/NCE T/D-11
12.	Ashok. A. B	Capability of software for welding simulation: a study using experimental approach and numerical validation	SDMCET, Dharwad	IETME2014/NCE T/D-12
13.	Amey Mathkar	Experimental performance analysis of an air powered motor	Fr. CRIT, Vashi, Navi Mumbai	IETME2014/NCE T/D-13
14.	Arpitha N.S Mrs. Vinayambika S. Bhat	Assessment and attenuation of essential tremor of hand using vibration sensor and matlab software	Mangalore Institute Of Technology & Engineering	IETME2014/NCE T/D-14
15.	Mr. Mathapati shivaputra	Design and development of 3 wheeler tyre to improve tyre life of size 4.00-10 xm rib for the new model bajaj vehicle	SIET TUMKUR	IETME2014/NCE T/D-15
16.	Arpitha g r	Design of dual drive mechanism using single motor	SIET TUMKUR	IETME2014/NCE T/D-16

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		for 11.0m antenna		
17.	DR. SHRINIVAS L. GOMBI, AKHIL A. DESHPANDE	Redesign of component sizes of a machine tool using inverse identification of operating cutting force	KLS's Gogte Institute of Technology Udyambag, Belgaum	IETME2014/NCE T/D-17
18.	Dr. R.SARAVANAN Mr. MUZAKKIR AHMED KHAN	Corrosion analysis of hybrid composites	UVCE Bangalore University, Bangalore.	IETME2014/NCE T/D-18
19.	Dr. R.SARAVANAN Mr. NARAYAN NAYAK	Wear analysis of en 24 medium alloy steel	UVCE Bangalore University, Bangalore.	IETME2014/NCE T/D-19
20.	SUSHANT BHUJANGANAVAR DR.G.V.PRABHUSH ANKAR	Forging die design for connecting rod to increase productivity	SIT Tumkur	IETME2014/NCE T/D-20
21.	VENKATESH G J, PRADEEP KUAMAR M R MANJUNATH C J HARISH KUMAR N S	Fatigue Life Estimation of Wing - Fuselage Attachment Bracket for a Fighter Aircraft	Sha-Shib College of Engineering Chikkaballapur	IETME2014/NCE T/D-21

### **Session : 3 Material Science** (Coordinator : Prof.Venkatesh, 9964285738)

Sl. No	Name of the Authors	Title of the Paper	Name of the College	Paper No
1	Raghu N R H Jayaprakash	Preparation characterisation and property evaluation of cryogenically solidified nano metal matrix composites	SIT, Tumkur	IETME2014/N CET/MS-1
2	T S Siddalingaprasad Bharath H S H S Shivashankar	Study on effect of forging on tool steel materials	KIT, Tiptur	IETME2014/N CET/MS-2
3	Mohammed Zakaulla, A R Anwar Khan, P G Mukunda	Effect of addition of coated graphite powder on the wear behavior of Al/Cu-SiC/Cu-Gr composites	Ghousia College of Engg, Bangalore	IETME2014/N CET/MS-3
4	Naresh H, Aswatha, Santosh Nagaraja N	The influence of alloying constituent Fe on mechanical properties of NiTi based shape memory alloys	BIT, Bangalore	IETME2014/N CET/MS-4
5	M Vamsi krishna, M Anthony Xavior	An investigation on the mechanical properties of hybrid metal matrix composites	M I T S MADANAPALLI AP	IETME2014/N CET/MS-5
6	Parashuram A Chethan K S Kiran Aithal S	Numerical simulation of centrifugal casting technique	NMIT Bangalore	IETME2014/N CET/MS-6

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7	Naveena H S, C M Ramesha, Chandan B R, Anand Babu K	A study on forgebility of medium carbon low alloy steels by simulation approach	SVCE, Bangalore	IIETME2014/N CET/MS-7
8	Kottakota Kalasagarreddi, Sobhan Prem Sai Koppuravuri, Gundu Vinay Kumar	Mathematical Analysis on E-Glass Fiber and Silicon Carbide Reinforced Aluminum 2618 Hybrid Composite	Amrita Vishwa Vidyapeetham, Bangalore	IIETME2014/N CET/MS-8
9	Hanumanthe Gowda	Mechanical properties of aluminium-sic based metal matrix composites	RLJIT Bangalore	IIETME2014/N CET/MS-9

### **Session : 4 Mechatronics** (Coordinator : Prof.Yogeesha H C , 9448737620)

Sl. No	Name of the Authors	Title of the Paper	Name of the College	Paper No
1	Vineeth Shetty P, K R Prakash S Sateesh	Automated conveying of vrla batteries in the formation line	NIE, Mysore	IIETME2014/N CET/M-1
2	Laxmi Gulappagol, Freddy kuruvila	Intelligent guidance system for visually impaired	MITE, Moodabidri	IIETME2014/N CET/M-2
3	Mohammed Yazdan Rubhani, Kalpana B, Raghavendra Rao.A	Zigbee based collision avoidance of autonomous rover using fuzzy logic controller	NMAMIT, Nitte	IIETME2014/N CET/M-3
4	Sampath Kumar S, Annappa A R	Fault detection and protection of induction motor using plc and scada system	VTU REGIONAL CENTER, Mysore	IIETME2014/N CET/M-4
5	Roopa V.Yargattimath	Indian paper currency recognition using image processing	SDM College of Engg &Tech	IIETME2014/N CET/M-5
6	Guruprasad Patil, Dr.C.R Rajashekar	RFID based metro train system	MITE, Mangalore	IIETME2014/N CET/M-6
7	AShish A. Jawalkar, T.K.Chandrashekar	Automated irrigation management using soil moisture measurement through real-time embedded system	MITE, Moodabidri	IIETME2014/N CET/M-7
8	Swathi C A, Hemanth Kumar S	Automatic street lighting control system	VTURC, Mysore	IIETME2014/N CET/M-8
9	Manoj M Koushik,	Power harvesting due to human	NIE,	IIETME2014/N CET/M-9

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	Dr. T N Shridhar	body motion	Mysore	
10	Nagaraj M J, S.L. Pinjare, G.L. Ananthakrishna	Fundamental study of mems microcantilever and its application	NMIT, Bangalore	IIETME2014/N CET/M-10
11	Dilip Nag H, Vinod Kumar M V,	Automated unmanned Railway Gate using Telescopic Cylinder	MIET Moodabidare	IIETME2014/N CET/M-11
12	Dipin.A , DR. Chandrasekhar	Solar powered vision based robotic lawn mover	MITE, Moodabidri	IIETME2014/N CET/M-12
13	N.Pannaga, H Supreet	PLC for aircraft applications	MITE, Moodabidri	IIETME2014/N CET/M-13
14	Arpitha N S, Vinayambika S. Bhat	Assessment and attenuation of essential tremor of hand using vibration sensor and matlab software	MITE, Moodabidri	IIETME2014/N CET/M-14
15	Shashank navalagi, Manjula B B	Biometric cryptosystems using gray extended visual cryptosystem	East West Institute of tecnology	IIETME2014/N CET/M-15
16	Vinay M N, Manjunath Iyer K B, Shreenivas P Patil, Girish Kumar R	EFFECT OF PROCESS PARAMETERS ON SHEAR STRENGTH OF SINGLE LAP JOINT PREPARED USING MODIFIED EPOXY RESIN	CIT, Gubbi	IIETME2014/N CET/M-16
17	Shruthi S Iyer M. Prasanna Kumar	Design and Development of Flipper Mechanism in Unmanned Ground Vehicle	VTU, Mysore	IIETME2014/N CET/M-17