

FACULTY PROFILE



1. Preview

Personal Details

Name of the Staff : Dr.D.Ravindran
Official Address with E-mail Id : Professor
Department of Mechanical Engineering
National Engineering College
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Mobile Number : +91 94432 57441
Date of Birth and Age : 12-March-1963, 53 Years

2. Career Profile: Total teaching experience 30 years 7 months (as professor 10 years 2 months)

Institution	Duration		Designation	Service in Yrs/Mont
	From	To		
National Engineering College	02.05.2014	Till date	Professor	10 years 5 months
	26.05.2007	01.05.2014	Professor and Head	
	28.12.2005	25.05.2007	Professor	
	23.06.1995	27.12.2005	Assistant Professor	10 Yrs 6 months
	01.07.1985	22.06.1995	Lecturer	9 yrs 11 months

2.1 Guidance of Research

Number of Ph.D. scholars completed : 06 (Supervised Independently)
Number of Ph.D. scholars pursuing : 09 (Three of them are preparing thesis)

2.2 Major Research Projects undertaken as Principle Investigator

Sponsored Agency	Title of the Project	Period	Cost of the Project
BRNS	Prediction and control of distortion in components during hard facing	2006-2009	19.6 lakhs
BRNS	Optimization of grain size for improving the creep properties of 304HCu stainless steel	2013 onwards (ongoing)	33.52 lakhs

2.2 Details of Consultancy project undertaken:

1. Energy recovery system from Industrial Exhaust fan has been designed and installed in K.R. Textile mills to recovery waste energy.

3. Publications

3.1 Published Papers : (International Journals) (Google scholar H index : 7)

1. 3D finite element simulation of temperature distribution, residual stress and distortion on 304 stainless steel plates using GTA welding,(2016) D Venkatkumar, D Ravindran, Journal of Mechanical Science and Technology, 30(1), 67-76.

2. An Integrated approach for optimal fixture layout design,(2015), F Michael Thomas Rex, D Ravindran, Proc IMechE Part B, Journal of Engineering Manufacture, sage publication, 1-12
3. Simultaneous scheduling of machines and tools in multimachine flexible manufacturing systems using artificial immune system algorithm,(2014), JA Raj, D Ravindran, M Saravanan, T Prabaharan, International Journal of Computer Integrated Manufacturing 27 (5), 401-414
4. Material Characterization Study on Aluminium Metal Matrix Composites by Enhanced Stir Casting Method, (2014),TM Jegan, D Ravindran, M Anand, Advanced Materials Research 984, 326-330
5. A Tabu Search for Multi-Objective Single Row Facility Layout Problem,(2014), N Lenin, M Siva Kumar, D Ravindran, MN Islam, Journal of Advanced Manufacturing Systems 13 (01), 17-40
6. Multi-objective optimization for optimum tolerance synthesis with process and machine selection using a genetic algorithm,(2013), K Geetha, D Ravindran, MS Kumar, MN Islam, The International Journal of Advanced Manufacturing Technology 67 (9-12) 2439-2457
7. ECM Parameters Modeling and Optimization Using WSGA, (2013),TM Jegan, D Ravindran, M Anand, Applied Mechanics and Materials 423, 925-930
8. Evaluation of elastic constants of A3003 honeycomb core with varying hexagonal cell geometries through finite element approach, (2013), S Rajkumar, D Ravindran, RS Sharma, VP Raghupathy, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Journal of Mechanical Engineering Science
9. Multi-objective optimization in single-row layout design using a genetic algorithm,(2013), N Lenin, MS Kumar, MN Islam, D Ravindran, The international Journal of Advanced Manufacturing Technology 67 (5-8) 1777-1790
10. Decision Making in Multi-objective Facility Layout Design Selection Problem, (2013), N Lenin, M Siva Kumar, D Ravindran, K Vignesh, M Islam, Journal of Manufacturing Engineering. 8 (2): pp. 105-113.
11. Influence of fibre treatments on mechanical properties of short sansevieria cylindrica ploy3ester composites, (2012), VS Sreenivasan, D Ravindran, V Manikandan, R Narayanasamy, Materials & Design 37, 111-121
12. Iterative approach for optimising coefficient of power, coefficient of lift and drag of wind turbine rotor, (2012), S Rajkumar, D Ravindran, Renewable Energy, 38 (1), 83-93
13. Effect of phase transformation and intermetallic compounds on the microstructure and tensile strength properties of diffusion-bonded joints between Ti-6Al-4V and AISI 304L,(2012), T Vigraman, D Ravindran, R Narayanasamy,Materials & Design 36, 714-727
14. Microstructure and mechanical property evaluation of diffusion-bonded joints made between SAE 2205 steel and AISI 1035 steel, (2012), T Vigraman, R Narayanasamy, D Ravindran,Materials & Design 35, 156-169
15. Determination of Electro Discharge Machining Parameters in AISI202 Stainless Steel Using Grey Relational Analysis,(2012), TM Jegan, M Anand, D Ravindran, Procedia Engineering 38, 4005-4012
16. Diffusion bonding of AISI 304L steel to low-carbon steel with AISI 304L steel interlayer,(2012), T Vigraman, D Ravindran, R Narayanasamy, Materials & Design 34, 594-602
17. Optimization of Wind Turbine Power Coefficient Parameters using Hybrid Technique, (2012),S Rajakumar, D Ravindran, Journal of The Institution of Engineers (India): Series C 93 (2), 141-149
18. Compression Behavior of Adhesive Butt Joints of Aluminum Hexagonal Core Sandwich Panels with Different Edging Configurations,(2012), S Rajkumar, D Ravindran, PK Arul Raj, V Hariprasath, Advanced Materials Research 488, 737-741
19. Microstructural, physico-chemical and mechanical characterisation of Sansevieria cylindrica fibres–An exploratory investigation,(2011),VS Sreenivasan, Somasundaram, D Ravindran, V Manikandan, Materials & Design 32 (1), 453-461
20. Mechanical properties of randomly oriented short Sansevieria cylindrical fibre/polyester composites, (2011), VS Sreenivasan, D Ravindran, V Manikandan, R Narayanasamy, Materials & Design 32 (4), 2444-2455
21. A simple heuristic for linear sequencing of machines in layout design,(2011), MS Kumar, MN Islam, N Lenin, D Vignesh Kumar, D Ravindran, International Journal of Production Research 49 (22), 6749-6768

22. Computational Fluid Dynamics Of Wind Turbine Blade at Various Angles of Attack and Low Reynolds Number, (2010), S Rajakumar, D Ravindran, Int. J. Eng. Sci. Technol 2 (11), 6474-6484
23. Flow shop scheduling with multiple objective of minimizing makespan and total flow time (2005), D Ravindran, SJ Selvakumar, R Sivaraman, AN Haq, The international journal of advanced manufacturing technology, 25 (9-10) 1007-1012
24. A hybridisation of metaheuristics for flow shop scheduling,(2004), AN Haq, D Ravindran, V Aruna, S Nithiya, The international journal of advanced manufacturing technology 24 (5-6), 376-380

3.2 International Conference Publications

Sl. No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	Evaluation of stiffness of Aluminum hexagonal honey comb core sandwich panels by FE method	International conference on Simulation, Modeling and Analysis. (COSMA 2011)	National Institute of Technology, Calicut and Amrita University, Coimbatore	14 th to 16 th Dec.2011
2	Short Beam Testing on Adhesive Butt Joints for Aluminum Hexagonal Core Sandwich Panels with Different Edging Configurations”.	Third International Joint Conference on Advances in Engineering and Technology, AET 2012,	AMAE Gurgaon, India.	28-29 th December – 2012
3	Experimental investigation of stiffness characteristics of Tee joints of Aluminum Honeycomb core sandwich panels with different edging configurations	International conference on applications and design in mechanical engineering. (ICADME 2012)	UNIMAP, Bay view beach resort, Penang, Malaysia	27 th -28 th February – 2012
4	Compression behavior of adhesive butt joints of Aluminum hexagonal core sandwich panels with different edging configurations	2 nd International Conference on Key Engineering Materials. (ICKEM 2012)	Singapore, Page.No.737-741.	26 th -28 th , February – 2012
5	Evaluation of stiffness of aluminum hexagonal honeycomb core sandwich panels by FE methods”.	2 nd International Conference on Simulation Modeling and Analysis. (COSMA 2011)	Amrita School of Engineering, Coimbatore - 641112	14 th -16 th December 2011, Page no. 20-27.

3.3 National Conference Publications

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	Minimizing the total tardiness in flow shop problems using memetic algorithm	National conference on Global Technologies in manufacturing and thermal sciences-GTMTS 2004,	Sethu Institute of Technology, Pullor Kariapatti – 626106	July - 2004
2	Hybrid algorithm for flow shop problems	National conference on Global Technologies in manufacturing and thermal sciences-GTMTS 2004,	Sethu Institute of Technology, Pullor Kariapatti – 626106	July - 2004
3	Participated	National Conference on Modeling & analysis of Production systems	Regional Engineering College, Tiruchirappalli	22 nd & 23 rd Jan2004.

4	Investigation of Adhesive butt joint characteristics in aluminum honey comb cores	Trends and Advances in Manufacturing Engineering (TAME 2011)	PES Institute of Technology, Bangalore	29 th and 30 th Sep.2011
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3.4 Professional Recognition

Name of the award	Year	Organization
Sir Rajendra Nath Mookerjee Memorial Prize/India	2013	The Institution of Engineers (India)

3.5 Membership in Professional bodies

Name of Society	Grade of Membership
ISTE	<ul style="list-style-type: none"> • Life Member (LM 21018) • Elected as Section managing committee member for ISTE (TN &P section) for the term 2009-2011 • Elected as Executive council member for ISTE(TN& P section) for the term 2015 to 2017
IE	Fellow member (F-112981-5)
SME	Life Member (FMSME 00405) and also Executive Committee member

Research scholars completed Ph.D

1. Mr.V.Sreenivasan, (2006289706), “Studies on characterization of Sansevieria Cylindrica fibers and mechanical properties of sasevieria cylindrica/ polyester composites” 2012.
2. Mr.T.Vigraman, (2006289113), “Diffusion Bonding of dissimilar Metals” 2012.
3. Mr.S.Rajakumar, (2006289705) “Optimization of power coefficient of horizontal axis wind turbine”2012.
4. Mr.S.Rajkumar , (20072062003) “Investigation of joint configurations and joint characteristics of A3003 honey comb sandwich panels”2014.
5. Mr.N.Lenin, (2010720107) “Simultaneous minimization of objectives in single row facility layout problems” 2015.
6. Mr.J.Aldrinraj, (20072042001) “Heuristic approaches to FMS scheduling problems” Aug.2015.

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