

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr. K.R. Balasubramanian is currently working as **Assistant Professor** in the Department of Mechanical Engineering, **National Institute of Technology, Trichy since 2006**. He received his B.E Degree in Mechanical Engineering from Shanmugha College of Engineering, Thanjavur under Bharathidasan University in 1999 and M.E. Degree in Design and Production of Thermal Power Equipment from REC, Trichy in 2002. He has 15 years of Teaching Experience.

His areas of interest include Fluid Mechanics, heat transfer and fluid flow analysis, Design of Experiments, Laser Material Processing, Computer Aided Design and Industrial Safety Engineering. He has published more than 60 papers in the International / National Journals and Conferences. He has guided 3 Ph.D candidates and presently guiding 3 scholars. He has successfully completed a **UGC-DAE –CSR Sponsored R&D project** on Modeling and Analysis of A-TIG Welding of **Rs. 7.5 Lakhs.** and a **DST funded R&D project** of **Rs.18 Lakhs** in Process Modeling of Laser Welding in 2009. He has completed **3 Industrial consultancy Projects worth Rs. 10 Lakhs.**

He has Published 2 Book Chapters and 2 Books. He has organised 1 International conference and 17 Short term courses. He has delivered Many Guest Lectures in Design of Experiments, Laser Materials Processing and Fluid Mechanics in many forums. Dr. K.R. Balasubramanian is a Life member of Institution of Engineers (India), ISTE and Indian Welding Society.

1.	Name:	Dr. K.R. Balasubramanian
2.	Designation:	Assistant Professor
3.	Office Address:	Department Mechanical Engineering National Institute of Technology Tiruchirappalli – 620 015, Tamilnadu, India.
4.	Telephone (Direct) : + 91-431- 2503419 Telephone :	Extn (Optional):

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	Mobile (Optional): 9443561873	
5.	Email (Primary): krbala@nitt.edu	Email (Secondary) : krbalas@gmail.com
6.	Field(s) of Specialization:	Design & Production of Thermal Power Equipment

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor, Department of Mechanical Engineering	National Institute of Technology, Tiruchirappalli.	April 2006	Present
Lecturer	Kings College of Engineering, Punalkulam, Pudukkottai	June 2005	April 2006
Lecturer	Sudharsan College of Engineering, Pudukkottai	January 2003	June 2005
Research Assistant	Regional Engineering College, Tiruchirappalli.	September 2000	August 2001

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph. D	National Institute of Technology, Tiruchirappalli, India.	2009		Thesis: Investigations on Process Parameters, Modeling and Weld Characterization for Laser Joining of Thin Section Stainless Steel
M. E	Bharathidasan University / Regional Engineering College, Tiruchirappalli, India.	2003	I Class with Distinction	Design & Production of Thermal Power Equipment
B.E	Bharathidasan University, Tiruchirappalli.	1999	I Class	Mechanical Engineering

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Subject Coordinator	Basic Mechanical Engineering	2016	
Class committee chairman	M. Tech Thermal Power Engineering	2016	
Hospital Committee Member	NBA Core Committee	2016	
Institute Stock Verification officer	Library/Hostel/Guest House/ICE Dept	2009-10, 2010-11, 2014-15, 2015-16	
Nodal Officer - Finance	TEQIP -II	2014	Till date
Hostel Warden	Aquamarine – A	2012	2015
Class Committee chairman	V Semester B.Tech. Mechanical Engg.	2011-12	
Class Committee chairman	I year M.Tech Thermal Power Engg	2009-10	
Class Committee chairman	VII Semester B.Tech. Mechanical Engg	2008-09	
Class Committee chairman	VII Semester B.Tech. Mechanical Engg	2007-08	
Staff Advisor	M.Tech - Thermal Power Engineering	2007	2009

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

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Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Curriculum Development

Member - B. Tech Mechanical Engineering

(ii) Courses taught at Postgraduate and Undergraduate levels

Basics of Mechanical Engineering

Fluid Mechanics

Human Factors Engineering

Machine Drawing

Safety in Engineering Industry

Analysis of Thermal Power Cycles

Fluid Mechanics of Turbo Machines

(iii) Projects guided at Postgraduate level – 20 Nos.

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Experimental Investigation of Impact Initiation of sound / Light Emitting Pyrotechnic Compositions	Armament Research Board - DRDO	2015	2018	Ongoing
Modeling of A-TIG welding of austenitic stainless steels and prediction of residual stresses	UGC-DAE-CSR	2011	2015	Completed
Procedure for runner blade repair welding and stress relieving cycle	Shri Saravana Industries Pvt Ltd,	2012	2012	Completed
Procedure for Suruliyar power	Shri Saravana Industries Pvt Ltd	2012	2012	Completed

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house pelton wheel turbine runner blade repair welding & stress relieving				
Design of Experimental Matrix for heat transfer studies at Supercritical Test Facility	BHEL – Trichy	2012	2012	Completed
Process Modeling and Online Monitoring of Laser Beam Welding	DST	2007	2009	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
P. Dinesh Babu	Experimental Studies and Numerical Simulation of Laser Transformation Hardening of Low Alloy Steel	Guide	2013
T. Suthakar	Experimental Investigation and Numerical Analysis of Laser Beam Welding of Austenitic Stainless Steel	Co-guide	2013
Nanda Naik Korra	Optimization and Characterization Studies on Activated Tungsten Inert Gas (A-TIG) Welded Duplex Stainless Steel 2205 and Super Duplex Stainless Steel 2507 Alloys	Guide	2016
K. C. Ganesh	Numerical Modelling and Experimental investigation on TIG and Activated TIG Welding of Austenitic Stainless Steel	Guide	2016

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
June 13-15, 2014	"International Mechanical Engineering Congress"	International Conference	Convenor	NIT Trichy	NIT Trichy

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Topic	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Safety Training Programme	National	27.10.2014 to 30.10.2014		IGCAR, Kalpakkam
Short term course on "Advancement in Industrial Safety Engineering"	National	29.09.2014 - 30.09.2014		NIT, Trichy
Safety Training Programme	National	01.09.2014 to 04.09.2014		IGCAR, Kalpakkam
Fluid Mechanics	National	20.05.2014 to 30.05.2014		NIT, Trichy
Safety Training Programme	National	10.03.2014 to 16.03.2014		IGCAR, Kalpakkam
Training programme on OSHAS 180001:2007 organized by Bureau VERITAS Certification, India pvt Ltd, Mumbai	National	04.02.2014 to 08.02.2014		NIT, Trichy
In house Occupational Health and Safety Training programme for M.Tech students	National	05.12.2013 to 17.12.2013		NIT, Trichy

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Safety Training Programme	National	21.08.2013 to 23.08.2013		IGCAR, Kalpakkam
Safety Training Programme	National	02.07.2013 to 05.07.2013		IGCAR, Kalpakkam
Short term course on “Quantitative Research Techniques for Engineers and Researchers” under Self Financing Category.	National	10.06.2013 to - 14.06.2013		NIT, Trichy
TEQIP -II Sponsored short term course on “Recent Advances in Modeling and Simulation of Joining of Materials”	National	23.05.2013 to 25.05.2013		NIT, Trichy
Safety Training Programme	National	11.09.2012 to 14.09.2012		IGCAR, Kalpakkam
Safety Training Programme	National	19.06.2012 to 22.06.2012		IGCAR, Kalpakkam
Safety Training Programme	National	20.12.2011 to 23.12.2011		IGCAR, Kalpakkam
AICTE-MHRD sponsored Staff Development Programme on “Quantitative Research Techniques for Engineers and Researchers”	National	21.12.2009 to 02.01.2010		NIT, Trichy
AICTE-MHRD sponsored Faculty Development Programme on “Recent Advances in Modeling and Simulation of Joining of Materials”	National	29.12.2008 to 10.01.2009		NIT, Trichy

18. Invited Talks delivered

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Safety Training Programme	National	27.10.2014 to 30.10.2014		IGCAR, Kalpakkam
Short term course on "Advancement in Industrial Safety Engineering"	National	29.09.2014 - 30.09.2014		NIT, Trichy
Safety Training	National	01.09.2014 to		IGCAR,

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Programme		04.09.2014		Kalpakkam
Fluid Mechanics	National	20.05.2014 to 30.05.2014		NIT, Trichy
Safety Training Programme	National	10.03.2014 to 16.03.2014		IGCAR, Kalpakkam
Training programme on OSHAS 180001:2007 organized by Bureau VERITAS Certification, India pvt Ltd, Mumbai	National	04.02.2014 to 08.02.2014		NIT, Trichy
In house Occupational Health and Safety Training programme for M.Tech students	National	05.12.2013 to 17.12.2013		NIT, Trichy
Safety Training Programme	National	21.08.2013 to 23.08.2013		IGCAR, Kalpakkam
Safety Training Programme	National	02.07.2013 to 05.07.2013		IGCAR, Kalpakkam
Short term course on “Quantitative Research Techniques for Engineers and Researchers” under Self Financing Category.	National	10.06.2013 to - 14.06.2013		NIT, Trichy
TEQIP -II Sponsored short term course on “Recent Advances in Modeling and Simulation of Joining of Materials”	National	23.05.2013 to 25.05.2013		NIT, Trichy
Safety Training Programme	National	11.09.2012 to 14.09.2012		IGCAR, Kalpakkam
Safety Training Programme	National	19.06.2012 to 22.06.2012		IGCAR, Kalpakkam
Safety Training Programme	National	20.12.2011 to 23.12.2011		IGCAR, Kalpakkam
AICTE-MHRD sponsored Staff Development Programme on “Quantitative Research Techniques for Engineers and Researchers”	National	21.12.2009 to 02.01.2010		NIT, Trichy
AICTE-MHRD sponsored Faculty Development Programme on “Recent Advances in Modeling and Simulation	National	29.12.2008 to 10.01.2009		NIT, Trichy

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of Joining of Materials”				
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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member	The Institution of Engineers (India)	
Life Member	The Indian Society for Technical Education	
Life Member	Indian Welding Society	
Member	International Association of Computer Science and Information Technology (IACSIT)	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
USA	One Week	ASME Conference
Singapore	4 Days	Conference
Thailand	One week	Conference

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Harikrishnan S. Pillai, K.	Effect On	International	11, No.	3786-	2016	

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R. Balasubramanian, P. S. Seshadri,	Performance Of Utility Boiler With Variation In Fuel Properties,	Journal of Applied Engineering Research,	6	3790.		
Sankar G, Chandrasekhara Rao A, Seshadri P S and K.R.Balasubramanian,	Techniques for measurement of heat flux in furnace waterwalls of boilers and prediction of heat flux - A review,	Applied Thermal Engineering,	103	1470–1479.	2016	3.043
Sankar G, Chandrasekhara Rao A, Kartikeyan V R, Seshadri P S, Balasubramanian K R,	A New Method for Prediction of Local Heat Flux on Membrane Waterwallwith Rifled Tubes of Subcritical Boilers,	International Journal of Applied Engineering Research	11 no	1273-1281	2016	
Ganesh, K. C., K. R. Balasubramanian, M. Vasudevan, P. Vasantharaja and N. Chandrasekhar.	Effect of multipass TIG and activated TIG welding process on the thermo-mechanical behavior of 316LN stainless steel weld joints.	Metallurgical and Materials Transactions B,	47(2), pp.	1347-1362	2016	1.474
Nanda Naik Korra, M. Vasudevan and K. R. Balasubramanian, ,	Optimization of A-TIG welding of Duplex Stainless Steel Alloy 2205 based on Response Surface Methodology and Experimental Validation,	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications				0.793
P. Dinesh Babu, G. Buvanashakaran and K. R. Balasubramanian, ,	The Elevated Temperature Wear Analysis of Laser Surface–Hardened EN25 Steel Using Response Surface Methodology,	Tribology Transactions	58:4	602-615	2015	1.418
K.C. Ganesh, M. Vasudevan, K.R. Balasubramanian, N. Chandrasekhar, S. Mahadevan, P. Vasantharaja, T.	Modeling, Prediction and Validation of Thermal Cycles, Residual Stresses and Distortion in	Procedia Engineering	86	767–774.	2014	

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Jayakumar.	type 316 LN Stainless Steel Weld Joint made by TIG Welding Process					
Nanda Naik Korra, M. Vasudevan and K. R. Balasubramanian, , , 2015.	Multi-objective optimization of activated tungsten inert gas welding of duplex stainless steel using response surface methodology	International Journal of Advanced Manufacturin g Technology	77 (1)	67-81	2015	1.568
K. R. Balasubramanian, S. P. Sivapirakasam, J. Mathew	Analysis of chemical degradative effects on low voltage PVC insulation using DSC	Applied Mechanics and Materials	592- 594,	2475 - 2480	2014	
K. R. Balasubramanian, S. P. Sivapirakasam, N.N. Korra, K. Kumar Dhruw, , , 2014 , Vol. 592-594, pp..	Study of posture and discomfort in handling machines in manufacturing industry	Applied Mechanics and Materials	592- 594	2552- 2556		
K. R. Balasubramanian, T. Suthakar, K. Sankaranarayananasamy, G. Buvanashakaran,	Numerical studies on heat transfer and fluid flow during laser welding of thin sheet	Applied Mechanics and Materials	592- 594	571-578	2014	
K.N. Naik, K. R. Balasubramanian, M. Vasudevan,	Finite element simulation of A-TIG welding of duplex stainless steel 2205 using SYSWELD.	Applied Mechanics and Materials	592- 594	374-379	2014	
M Jaganmohan Rao, S.P Sivapirakasham, K.R. Balasubramanian, K. Sreenath.	Investigation of Whole body vibration on Urban Midi Bus	Applied Mechanics and Materials	592- 594	2066- 2070	2014	
Nanda Naik Korra, K. R. Balasubramanian and M. Vasudevan,	Optimization of activated tungsten inert gas welding of super duplex alloy 2507 based on experimental results	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	229(8)	1407– 1417	2015	
K. C. Ganesh , M.	Thermo -	Materials and		903–	2014	1.629

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Vasudevan , K. R. Balasubramanian, N. Chandrasekhar and P. Vasantharaja.	Mechanical Analysis of TIG Welding of AISI 316LN Stainless Steel	Manufacturin g Processes		909.		
P. Dinesh Babu, G. Buvanashakaran and K. R. Balasubramanian,	Numerical analysis and experimental validation of hardness and microstructural changes during laser transformation hardening of low alloy steel plates	Proceedings of the Institution of Mechanical Engineers, Part L, Journal of Materials: Design and Applications	217– 230	228(3)	2014	
G. R. Kannan, K. R. Balasubramanian and R. Anand.	Artificial Neural Network Approach Study The Effect Of Injection Pressure and Timing On Diesel Engine Performance Fueled With Biodiesel	International Journal of Automotive Technology	14, No. 4	507–51 9	2013	
P. Dinesh Babu, G. Buvanashakaran and K.R. Balasubramanian.	Dry sliding wear of laser hardened low alloy steel at room and elevated temperatures	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	227 (10)	1138– 1149	2013	
P. Dinesh Babu & G. Buvanashakaran & K. R. Balasubramanian	Experimental investigation of laser transformation hardening of low alloy steel using response surface methodology	International Journal of Advanced Manufacturin g Technology	67:	1883– 1897	2013	
Purushothaman Dinesh Babu, Gengusamynaidu Buvanashakaran, Karupuudaiyar R. Balasubramanian	Experimental Studies on the Microstructure and Hardness of Laser Transformation Hardening of Low alloy Steel	Transactions of the Canadian Society for Mechanical Engineering	36, No. 3	241- 258	2012	

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K. R. Balasubramanian, Suthakar T, Sankaranarayananamy K, Buvasashekarana G, , ,	Studies on Weld Shape Formation and Marangoni Convection in Nd:Yag Laser Welding	International Journal of Mechatronics and Manufacturing Systems	5, Nos. 3/4	226 - 246	2012	
K. R. Balasubramanian, T. Suthakar, K. Sankaranarayananamy and G. Buvasashekarana, ‘, , Vol., pp, 2012.	Finite Element Analysis of Heat Distribution in Laser Beam Welding of AISI 304 Stainless Steel Sheet’	International Journal of Manufacturing Research	7, No. 1	42–58	2012	
Nanda Naik Korra, K.R. Balasubramanian, , , Vols.	Parametric Optimization of TIG Welding on 316L Austenitic Stainless Steel by Grey-Based Taguchi Method	Advanced Materials Research	383-390	4667-4671,	2012	
M. Shahul Hameed, S. P. Sivapirakasam, K.R. Balasubramanian, R. Nagalakshmi,	Investigations on fume formation rate in shielded metal arc welding process using different electrodes	Advanced Materials Research	383-390		2012	
K. R. Balasubramanian, T. Suthakar, K. Sankaranarayananamy and G. Buvasashekarana, ,	Laser Welding Simulations of Stainless Steel Joints using Finite Element Analysis	Advanced Materials Research	383-390		2012	
T. Suthakar, K. Sankaranarayananamy, K. R. Balasubramanian, G. Buvasashekarana and K. Krishna murthy, ,	Effect of Peclet Number on the Thermo Capillary Convection and Molten Pool Shape Formation during Laser Welding Using CFD	Advanced Materials Research	383-390		2012	
C. Anand Chairman, S. P. Kumaresh Babu, Muthukannan DuraiSelvam, K. R. Balasubramanian.	Investigation on two-body abrasive wear behavior of titanium carbide filled glass fabric-epoxy composites- a Box-Behnken approach’	International Journal of Engineering, Science and Technology	3, No. 4	119-129	2011	

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Dinesh Babu, P., Balasubramanian, K.R. and Buvanashakaran, G.,	Laser surface hardening: a review”	International Journal of Surface Science and Engineering	5, No. 2,	131– 151	2011	0.384
P. Dinesh Babu and K.R. Balasubramanian,	Influence of Quenching Medium on Microstructure, Hardness and Elevated Temperature Sliding Wear of 45C8 Steel,	CiiT International Journal of Automation and Autonomous System			2011	
G.R.Kannan, K.R.Balasubramanian, S.P.Sivapirakasam, R.Anand,	Studies on biodiesel production and its effect on DI diesel engine performance, emission and combustion characteristics	International Journal of Ambient Energy		1-15	2011	
S.P. Sivapirakasam, Jose Mathew, K. R. Balasubramanian & M. Surianarayanan, ,	Optimization of Machining Parameters and Environmental Emission of Electric Discharge Machining Process using Grey Relational Analysis	International Journal of Materials, Manufacturin g and Optimization	2, No.1	27-32	2011	
M. Mohamedmusthafa, S. P. Sivapirakasam, M. Udayakumar, and K.R. Balasubramanian,	Effects of Al ₂ O ₃ Coating on Diesel Engine Performance, Combustion, and Emission Characteristics Fueled by Pongamia Methyl Ester and Its Blends with Diesel	AICHE - Environment al Progress & Sustainable Energy Journal				
K.R.Balasubramanian, G. Buvanashakaran, K. Sankaranarayanamy,	Modeling of laser beam welding of stainless steel sheet butt joint using neural networks’	CIRP Journal of Manufacturin g Science and Technology	3, No.1	80-84	2010	
K.R. Balasubramanian, K. Sankaranarayanamy, T. Suthakar, S.P. Sivapirakasam and G.	Mathematical modelling and optimisation of laser welding of butt	International Journal of Computational Materials	3, No. 4	321-335	2010	

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Buvasashekaran,	joints'	Science and Surface Engineering				
R. Nagalakshmi, S. P. Sivapirakasam, K.R.Balasubramanian and P.V.N. Maheswara Rao,	A Model for Prediction of Fume Formation Rate in Gas Metal Arc Welding'	WRI JOURNAL	31 No.2	14-21	2010	
K.R.Balasubramanian, G. Buvasashekaran, K. Sankaranarayananasamy,	'Effect of Process Parameters on Weld Profile and Solidification Structure for Laser Joining of Austenitic Stainless Steel Sheets'	Journal on Manufacturing Engineering	4	30-34	2008	
K.R. Balasubramanian, N. Siva Shanmugam, G. Buvasashekaran and K. Sankaranarayananasamy,	Numerical and Experimental Investigation of Laser Beam Welding of AISI 304 Stainless Steel Sheet'	Advances in Production Engineering & Management Journal	3, No. 2	93-105	2008	1.125
K.R.Balasubramanian, G. Buvasashekaran, K. Sankaranarayananasamy, ', Issue, pp, ()	Mathematical and ANN modeling of Nd:YAG laser welding of thin SS sheets'	Journal on Manufacturing Engineering	2	56-60	2007	
K.R. Balasubramanian, K. Sankaranarayananasamy, G. Buvasashekaran ', Volume, pp, ()	Analysis of Laser welding parameters using artificial neural network'	International Journal for the Joining of Materials	18 No. 3/4	99-104	2006	
G. Buvasashekaran, K.R. Balasubramanian, and K. Sankaranarayananasamy	Characterization of process parameters for Laser welding of stainless steel'	WRI JOURNAL	27 No.2	14-21	2006	

(B) Conferences/Workshops/Symposia Proceedings

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Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page number s	Venue	Year
K.C.Ganesh, M.Vasudevan, K.R.Balasubramanian , P.Vasantharaja,.	Conductive mode heat transfer analysis of TIG and activated-TIG welding process for various depth-to-width ratio of weld bead profile in type 316LN stainless steel,	International Conference on Advances in Materials, Manufacturing and Applications,		- NIT, Trichy	2015
Ganesh, K. C., M. Vasudevan, K. R. Balasubramanian,N. Chandrasekhar, S. Mahadevan, P. Vasantharaja and T. Jayakumar.	Modeling, Prediction and Validation of Thermal Cycles, Residual Stresses and Distortion in type 316 LN Stainless Steel Weld Joint made by TIG Welding Process	International Conference on Structural Integrity,		IGCAR, Kalpakkam, India.	2014
K. R. Balasubramanian, S. Suresh and S. P. Sivapirakasam,	Heat Transfer Enhancement Using Nanofluid In A Serpentine Passage, ,	International Conference on Advance Research in Mechanical ,Aeronautical And Civil,	65-69	Pattaya, Thailand.	2013
S. P. Sivapirakasam, Sreejith Mohan, K. R. Balasubramanian, M. Surianarayanan, ,.	Respirable fume analysis during the flux cored arc welding of 316L(N) Austenitic stainless steel	International Conference on Advance Research in Mechanical, Aeronautical And Civil	70-74	Pattaya, Thailand.	2013
S. P. Sivapirakasam, R. Anand, G. R. Kannan and K. R. Balasubramanian, ,	Optimization of Biodiesel Production Using RSM and Study of Combustion Characteristics on DI Diesel	ASME 2012 International Mechanical Engineering Congress and Exposition Volume 6: Energy, Parts A and B,		Houston, Texas, USA	2012

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T. Suthakar, K. R. Balasubramanian and K. Sankaranarayananasamy	Engine Multi Objective Optimization of Laser Welding Process Parameters by Desirability Approach of Design of Experiments	ASME 2012 International Mechanical Engineering Congress and Exposition, Volume 3: Design, Materials and Manufacturing, Parts A, B, and C,		Houston, Texas, USA	2012
K. R. Balasubramanian, R. Anand, B. Venkatesh, G. R. Kannan, and S. P. Sivapirakasam,	Study on Performance and Emission Characteristics of DI Diesel Engine Fuelled With Deccan Hemp Methyl Ester,	ASME 2012 International Mechanical Engineering Congress and Exposition Volume 6: Energy,		Houston, Texas, USA	2012
K. R. Balasubramanian, G. R. Kannan and R. Anand	‘Effect of Preheated Waste Cooking Oil on the Performance and Emissions in a DI Diesel Engine’	Paper Id.20100438. PetroTech-2010, 9 th International Oil and Gas Conference and Exhibition,		New Delhi	2010.
K. R. Balasubramanian, T. Suthakar, K. Sankaranarayananasamy , G. Buvanashakaran, S.P. Sivapirakasam and Dileep Reddy K,	‘Analysis of Heat Transfer During the Laser beam welding of AISI 304 Stainless Steel using CFD’,	International Welding Symposium (IWS 2k10), pp 391-399, Bombay Exhibition Centre		Mumbai,	2010
S. P. Sivapirakasam, R. Naga Lakshmi, K. R. Balasubramanian and P.V. N. Maheswara Rao, ‘	Assessment of welding fumes using ventilation parameters during GMAW welding	Process’, International Welding Symposium (IWS 2k10),.	463-471	Mumbai	2010
Jose Mathew, S.P. Sivapirakasam, K. R. Balasubramanian and K. Renjith,	‘Analysis of Total Aerosal Emission from electrical Discharge Machining Process’	Proceedings of the International Conference on Advances in Mechanical Engineering,	1024-1028	S.V. National Institute of Technology, Surat, Gujarat, India	2009

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K. R. Balasubramanian, N. Siva Shanmugam, G. Buvanashakaran and K. Sankaranarayananamy	Finite element simulation for Laser Beam Welding of Austenitic Stainless Steel Sheet’,	International Welding Symposium (IWS 2k8), paper no. 58,	1-10	Pragati Maidan, New	2008
K. R. Balasubramanian, K. Sankaranarayananamy and G. Buvanashakaran, ‘	The Use of Nd:YAG Lasers in Future Automobile Applications’.	National Conference on "Emerging Trends in Automobile Technology" SEDAN 2007,		Bharathidasan Institute of Technology, Bharathidasan University, Tiruchirappalli,	2007
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