

CURRICULUM VITAE

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Educational Qualifications:

<i>Degree</i>	<i>Name of the Course passed /Main subject</i>	<i>Name of the Board/University</i>	<i>Month & Year passed</i>	<i>Class</i>
Ph.D.	Mechanical Engineering	Anna University	2008	First Class
M.E	Engineering Design	Bharathiar University	2002	First Class
B.E	Mechanical Engineering	Bharathiar University	1999	First Class
+ Two	First group	State Board	1995	First Class
10th Class	-	State Board	1993	First Class

Experience (including present position/employment)

<i>Designation & scale of pay / Pay Band & G.P.</i>	<i>University/ Institution</i>	<i>Period of Experience</i>			<i>Responsibility</i>
		<i>From</i>	<i>To</i>	<i>Total years of experience</i>	
Associate Professor 37400 - 67000 AGP 9500/- & 47210 AGP 9500/-	Indian Institute of Technology, Dhanbad-826004	27.08.2012	Till Date	-	Teaching and Research
Assistant Professor Rs.15600 -13500 AGP 8000/- & 23830 AGP 8000/-	National Institute of Technology, Tiruchirappalli-620 015	08.06.2006	24.08.2012	6 Years 2 Months 16Days	Teaching and Research
Teaching Research Associate Rs. 9500/- (Consolidated)	Anna University, Chennai – 600 025	27.09.2002	07.06.2006	3 Years 8 Months 10 Days	Teaching and Research
Lecturer & Rs. 8000-275-13500	Bharath Institute of Science and Technology, Chennai – 600 073	27.06.2002	26.09.2002	3 Months	Teaching

Academic and Research Contributions:

Teaching, Learning and Evaluation related activities:

Number of subjects taken during the assessment period with the feedback score

- | | |
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| <ol style="list-style-type: none"> 1. ME101 Engineering Mechanics 2. ME102 Engineering Drawing 3. ME205 Machine Drawing 4. ME305 Mechanics of Machines I & II 5. ME304 Automobile Engineering 6. ME459 Dynamics of Machinery | <ol style="list-style-type: none"> 7. ME 631 Analysis and Design of Pressure Vessels 8. ME 653 Vehicle Dynamics 9. MMC16111 Drilling Engineering 10. MMR 16101 Mining Machinery- I 11. MMR 17101 Mining Machinery- II |
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Involvement in Laboratory development

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| <ol style="list-style-type: none"> 1. ME309 Advance Research Laboratory 2. ME314 Automobile Engineering Laboratory | <ol style="list-style-type: none"> 3. Fluid Power Laboratory |
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R&D Projects

Project Title: EXPERIMENTAL INVESTIGATION ON FLOW INDUCED VIBRATION OF ELASTICALLY MOUNTED BLUFF BODIES

Project value: Rs.17, 40,000/-

Project Number and Date: SB/FTP/ETA-389/2012

Sponsoring agency: DST, Govt. of India

Project Coordinator: Dr. L.A.KUMARASWAMIDHAS

Objective: To study the FIV characteristics in different operating conditions (varying Reynolds number for different Bluff bodies in multiple arrangements of various aspects)

Status: Completed

Patent:

1. "SURGE SUPPORTER (An Alternative Power Supply System for an Automobile)", Application No.2409/CHE/2012 dated 18/06/2012, filed with Patent Office Chennai.
2. "A Method of Preventing Bacterial Disease from Domestic Sewage Water and of Generating Electricity from the same", Application No.201631010314 dated 24/03/201, filed with Patent Office Kolkata.

Books:

- **Author of a book** on "Engineering Graphics", Tri See Publications India.
- Consultant Board Reviewer for Machine Design by Dr U. C Jindal.

Editorial Board Member:

1. Journal of Automobile Engineering and Applications.
2. Trends in Machine Design.
3. International Journal of Applied Research in Engineering and Science (IJARES).
4. International Journal of Engineering and Science (IJENS)-SCOPUS INDEXED.
5. International Research Journal (IRJ)

Reviewer:

1. Reviewer, Journal of Alloys and Compounds, **SCI, Elsevier**
2. Reviewer, Alexandria Engineering Journal **SCI, Elsevier**
3. Reviewer, Materials and Design, **SCI, Elsevier**
4. Reviewer, Engineering Science and Technology, an International Journal, **SCI, Elsevier**
5. Reviewer, Journal of Vibroengineering (JVE), **SCI, JVE International Ltd.**
6. Reviewer, The Society for Mining, Metallurgy, and Exploration, Inc. Society for Mining, Metallurgy, and Exploration 12999 E. Adam Aircraft Circle Englewood, CO 80112 USA
7. Reviewer, International journal of Engineering Science and Technology (IJEST), published by Multi craft, Malaysia.
8. Reviewer, Iranian Journal of Science and Technology, School of Engineering, Shiraz University, 71344, Shiraz, I. R. of Iran.

Technical Committee Member:

1. International Conference on Innovative Trends in Science, Engineering and Management 2014 (ICITSEM 2014), Dubai.
2. International Research Conference on Engineering, Science and Management 2014 (IRCESM 2014), Dubai.
3. 2nd International Conference on Mechanical, Automotive and Materials Engineering (CMAME 2014). Dubai.
4. 8th International Research Conference on Engineering, Science and Management 2017 (IRCESM 2017), Dubai.

M.Tech and M.S Guidance:

S.No	Reg. No	Name	Title	Degree	Year
1.	14MT000152	Sambit sahu	A study to minimize the crash energy absorption efficiency of various composite section using ANSYS	M.Tech	2016
2.	14MT000024	Amritanshu Raushan	Design and performance analysis of axial flow fan	M.Tech	2016
3.	2013MT0065	Murlidhar Kumar	Failure analysis of belt conveyor system	M.Tech	2015
4.	2013MT0347	Sandeep Kumar Sahoo	Assessment study of drilling performance of blast hole drills in surface mines	M.Tech	2015
5.	2012MT0181	Chandra Prakash Yadav	Design and performance analysis of axial fan by CFD simulation	M.Tech	2014
6.	2012MT0081	Satya Narayan Kumar	Numerical analysis of mine truck's bumper during collision using ANSYS	M.Tech	2014

7.	311909004	Aditya Kumar Pandey	Analysis of Flow Induced Vibration in 2 nd pass of coal fired boilers, with computational methods.	M.S	2012
8.	311911001	M.Elamparuthi	Fatigue Life Evaluation of Super Critical Boiler Components Based on ASME and EN Codes using ANSYS	M.S	2012
9.	211309032	SK.Rahaman Basha	Analysis Of Flow-Induced Vibration In An Elastically Mounted Circular Cylinder Using CFD	M.Tech	2011
10.	211308012	J. Raghu	Numerical analysis of flow induced vibration in an elastically mounted circular cylinder	M.Tech	2008
11.	MEA0612	Hasan Shaik	Stress analysis of Flex plate	M.Tech	2007
12.	MEA0505	P.Sampath Kumar	Determination of stress distribution in Non- Circular Pipe Bends	M.Tech	2007
13.	200255206	M.Muthukumar	Design and analysis of startup system components of super critical boilers using computational methods.	M.Tech	2006
14.	200355302	K.Subramanian	Design and optimization of spiral to vertical wall transition & support components for once through boiler using computational methods.	M.Tech	2006

PhD Guidance:

S.No.	Roll No.	Name	Title	Year
1	411108053	P.Velmurugan	Mathematical Modeling and Experimental analysis of Tractor Semi Trailer Vehicle for Improving the Ride Comfort.	2009 -2012 Completed
2	2012DR0162	R. K. Upadhyay	A Study on Tribological and Mechanical Properties of Tool Steel Coated with Monolayer-Multilayer Thin and Hard Nitride Films through Physical Vapour Deposition Process	2012 -2015 Completed
3	2013DR0082	K.Karthik Selva Kumar	Experimental And Numerical Investigation On Flow Induced Vibration Excitation In Elastically Mounted Circular And Square Structures	2013 - 2017 Completed
4	2013DR0230	Dipen Kumar Rajak	Experimental investigation on energy absorption behavior of aluminum alloy foam-filled thin walled structure at various loading conditions	2013 - 2017 Completed
5	2014DR1119	N.Mathan Kumar	Investigation of Sliding Wear, Behaviour and Material Removal rate of Al2618 reinforced AlN-S13N4-ZrB, Composite	2014 - 2017 Submitted
6	2013DR1092	D.Raguraman	Investigation on Friction Stir Welding of A6061-AZ61A	2013 Ongoing
7	2014DR0164	Chandan Kumar	Whole Body Vibration Exposure in HEMM	2014 Ongoing
8	2014DR1023	S.Pandiarajan	Friction Welding of Tube to Tube Plate Using an External-A Study	2014 Ongoing
9	2014DR1024	S.Kannan	A Study on Tube to Tube Plate Using Friction Welding and Tig Welding Process	2014 Ongoing
10	2014DR1118	N.Mohan Raj	Ultrasonic Welding of Al-Al, Cu,Cu and Al-CU for Automobile Applications: Metallurgical Analysis	2014 Ongoing
11	2014DR1128	E.Radha Krishnan	A Study of Mechanical Properties and Structural analysis in friction stir welding AA7075 and AZ61	2014 Ongoing
12	2015DR1129	Jasveer Singh	Investigation of Effective Area and Distortion Coefficient of Pneumatic Piston Gauge Using Different Simulation technique	2015 Ongoing
13	2015DR0250	Kundan Bharti	Finite Element Method (FEM) Based Dynamic Stability and Failure Analysis of Structural Joints Subjected to Mechanical Loading	2015 Ongoing
14	2015DR0251	Rakesh Kumar	Investigations into Rate of Penetration and Vibration of Drill Machines in Surface Mines for Performance	2015 Ongoing

			Optimization	
15	2015DR0148	Prem Shankar Kumar	Condition Monitoring and Fault Diagnosis of Rotary System	2015 Ongoing
16	2016DR0222	Naval Kishore Upaghyay	Mechanical Characterization of Thermoelectric Materials and Development of Thermoelectric Devices for Harnessing Waste Heat of Vehicle Exhaust	2015 Ongoing
17				
18				

Co-curricular and Professional Development related activities:

Participation in co-curricular activities like NSS, NCC, Sports, Cultural etc.

Field studies:

S.No.	Organization/ Place	Date
1.	Accompanied students for participating in BAJA SAE INDIA 2008,2009, 2010 and 2011 held at Indore	24/01/2008 to 27/01/2008, 27/01/2009 to 04/02/2009 25/01/2010 to 01/02/2010&27/01/2011 to 30/01/2011

Industrial visit:

S.No.	Organization/ Place	Date
1.	Accompanied students for Industrial visit Madras Atomic Power Station (MAPS), Kalpakkam	06/03/2009
2.	Accompanied students for Industrial visit Bharat Heavy Electrical Limited(BHEL), Trichy	24/10/2009
3.	Accompanied M.Tech Thermal Power Engineering students for Industrial visit Bharat Heavy Electrical Limited(BHEL), Trichy	04/10/2011
4.	Accompanied M.Tech. and B.Tech students to HEC Ranchi	2012 -2016

Placement activity:

S.No.	Organization/ Place	Date
1.	In BAJA SAE INDIA 2010, Placement activity held at Indore our students participated in the placement. Maddali VarunSuman final year Mechanical Engineering student got placed in Cummins India Limited, Pune 411 038.	25/01/2010-01/02/2010
2.	In charge of training and placement for B.Tech Mining Machinery Engineering and M.Tech Mining Machinery Engineering	29.07.2013 to till Date
3.	Departmental placement in charge for M.Tech and B.Tech students.	2013 – Till date

Participation in academic and administrative committees and responsibilities like class Committee, Staff advisor, Hostel Warden etc.

S.No.	Organization/ Place	Date
1	Warden at Amber Hostel, ISM, Dhanbad.	2013 – Till Date
2	One of the Advisory Committee Members For Energy Club in Vins Christian College of Engineering, Nagercoil.	18/09/2007
3.	Associate Warden of Agate Hostel, NIT, Trichy	11/07/200 – 27/12/2007

Students and Staff Related Socio Cultural and Sports Programs:

S.No.	Organization/ Place	Date
1.	Accompanied students for participating in volley ball and swimming events for Inter NIT Sports event held at NIT Surathkal	12/12/2008 – 15/12/2008
2.	Staff adviser for inter Hostel Tournament '09 held at NIT Tiruchirappalli.	15/02/2009 - 05/03/2009
3.	Accompanied students for participating in “Saarang 2010” held at IIT Madras, Chennai	21/01/2010 – 23/01/2010
4.	Accompanied students for participating in Indian cultural Festival held at Mahabalipuram	24/01/2010

Professional Ethics and Campus Development Activities like Institutional infrastructure projects:

Membership in institutional committees

S.No.	Organization/ Place	Date
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1.	Associate Warden of Agate Hostel, NIT, Trichy	11/07/2006 to 27/12/2007
2.	Warden of Garnet A Hostels NIT, Trichy	15/06/2009 to 24/8/2012
3.	One of the active members in tree plantation committee in NIT Campus	17/08/2009
4.	Institute furniture purchase Committee Member	24/8/2012
5.	Institute Swimming Pool maintenance Committee Member	24/8/2012
6.	Institute Stock Verification officer for metallurgical and material Science engineering Department, NIT Trichy	2009-10
7.	Workshops, organization, food, stalls –committees for “Festember 2009”	17/09/2009 to 21/09/2009
8.	One of the returning officer for conduction Office Bearers of students Association election for the academic year 2009 2010	31/07/2009
9.	Nominated as joint Secretary for officers club NITT	14.02.2007 to 24.08.2012
10.	Warden of Amber Hostel, ISM, Dhanbad	01.06 2013 to till date
11.	Teacher in charge for CONCETO 13.	2013
12.	Active Member for Five Weeks Intensive Training Programme for Management Trainees(E&M) of CIL	05.08.2013 to 06.09.2013
13.	Active Member for Five Weeks Intensive Training Programme for Management Trainees(E&M) of CIL	13.06.2016 to 15.07.2016

Participation in short term training courses less than one week duration in educational professional development

Participation in Conferences

1. Presented a paper in International Conference on Innovative Trends in Science Engineering and Management”, Dubai, during 12th & 13th Feb 2014.
2. Presented paper in International Conference on Mechanical and Industrial Engineering-World Academic of Science, Engineering and Technology, Singapore, during 28th to 30th Sep 2011.
3. Attended International conference on manufacturing technology – Realms Ahead Mantra2007, at BHEL Tiruchirappalli, India, during 12th&13thApril2007.
4. Attended two day course on “Material and Metallurgy for Engineering” at IITM, Chennai on 27th and 28th November 2009.
5. Attended 5thInternational conference on trends in Industrial Measurements and Automation at NIT Tiruchirappalli on 4th January 2007.
6. Faculty Development program conducted by Accenture and Anna University on “Software Quality” Anna University, Chennai – 600 025 on 25th to 26th August 2006.
7. Faculty Development program on “Re-Engineering Teaching Communication Skills” Anna University, Chennai – 600 025 on 09th to 10th February 2004.

<i>S.No.</i>	<i>Title</i>	<i>Organization/Place</i>	<i>Duration</i>
1.	AICTE-MHRD sponsored shot term courses on “Quantitative Research Techniques for Engineers and Researchers”	Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli – 620 015.	21th December 2009 to 02th January 2010
2.	AICTE-MHRD sponsored shot term courses on “Recent Advances in modeling and Simulation of Joining of Materials”	Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli – 620 015	29th December 2008 to 10th January 2009
3.	AICTE-MHRD sponsored shot term courses on “Composite Materials: Processing Challenges and Opportunities”	Department of Production Engineering, National Institute of Technology, Tiruchirappalli – 620 015	13th to 24th July 2008
4.	AICTE sponsored shot term courses on “Recent Trends in Advanced Manufacturing”	Department of Production Engineering, National Institute of Technology, Tiruchirappalli – 620 015	18th to 22th March 2008
5.	TEQIP sponsored nine day workshop on “Workshop on Composite Materials”	Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli – 620 015	17th to 25th January 2008
6.	QIP sponsored shot term courses on “Energy Conservation Measures for Manufacturing and Process Industries”	Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli – 620 015	10th to 14th December 2007

Participation in Institution governance:

S.No.	Details
1.	Faculty Adviser for SAE India Collegiate Club at NIT, Trichy. For the past Four years
2.	Acted as PAC Chairman for 1 Year M.Tech Industrial Safety Engineering 2007-08
3.	Acted as PAC Chairman for II Year B.Tech Mechanical Engineering (Odd Sem) 2009-10
4.	Acted as PG Admission committee member in the year 2007 for M. Tech – Industrial Safety Engineering and Thermal power Engineering at NIT, Trichy.
5.	Assisting the development of Automobile Engineering Laboratory.
6.	Faculty Adviser for M.Tech Safety Engineering I year Students 2011.
7.	Co-coordinator M.Tech Mining Machinery Engineering program from 29.07.2013 to Till date
8.	Faculty adviser of Final year B. Tech MME students, ISM, Dhanbad, 2012-Till date
9.	Laboratory In charge for Fluid Flow Machines, 29.7.2013-Till date

Lectures/and/or chair sessions:

S.No.	Event & Place	Date
1	Delivered a Lecture on Automobile Engineering on Winter Faculty Development Program in Jeppiaar Engineering College, Jeppiaar Nagar, Old Mamallapuram Road, Chennai – 600 119.	12.12.2006
2.	Deliver a Lecture on “Automobile Engineering” in Trichy Engineering College, Konalai, Tiruchirappalli – 621 132.	26.02.2010
3.	Deliver a Lecture on “Winding System & Safety Features in Underground Mines” to Engineering Trainees and UCIL Supervisors at MTC, Narwapahar, Jharkhand.	13.06.2013
4.	Being a chair person, I have conducted the “Civil and Mechanical Engineering” session in International conference on Innovative Trends in Science, Engineering&Management” Dubai	13/02/2014
5.	Technical Chair Session on International Conference on Chemical, Metallurgy and Material Science Engineering (CMMSE-2015), Pattaya, Thailand	10 th Aug 15

Involvement in attending conferences, seminars, workshops short-term training courses etc.:

S.No.	Title	Organization/Place	Duration
1.	AICTE-MHRD sponsored Staff Development Programme on “Applied Mechanical Measurements”	NIT, Trichy	29-06-2009-11-07-2009
2.	TEQIP sponsored one month research training in Laboratory of Automotive engineering, Helsinki University of Technology, Finland under Prof. MattiJuhala	Laboratory of Automotive Engineering, Helsinki University of Technology Finland	22/05/2008-16/06/2008
3.	AICTE sponsored one month training program undergone at Ashok Leyland product development division	Ashok Leyland, product development division, Chennai	01/06/2007-30/07/2007
4.	Presented paper in International Conference on Mechanical and Industrial Engineering-World Academic of Science, Engineering and Technology,	Singapore	28 th to 30 th Sep 2011.
5.	Presented paper in International conference on Innovative trends in Science Engineering and Management-14	Dubai.	12 th & 13 th Feb

Workshops / National conference / Seminar / Symposia:

S.No.	Title	Organization/Place	Duration
1	ISM Sponsored Orientation Training Program	Narwapahar Mines, Singhbhum East, Jharkhand	20 th May 2013 to 15 th June 2013
2	ISM Sponsored Training Program in Surface and Underground Mining Machineries	Putki Balihari Project Colliery, Kusunda, Dhanbad, Jharkhand	17.12.2012 - 22.12.2012
3	MHRD sponsored Two week workshop on “Thermodynamics and Mechanical Engineering”	IIT Bombay	14 th -24 th June 2011
4	Michelin tyres sponsored Two day workshop on Michelin “Challenge Bibendum”	Michelin Tyres, Berlin	17 th -22 nd May 2011
5	TEQIP sponsored Two day workshop on “Computational Fluid Dynamics”	Department of Mathematics, NIT Trichy	17 th to 18 th September 2007
6	QIP sponsored shot term courses on “Innovative Mechanical Design”	Indian institute of Technology, Bombay, Mumbai	15 th to 19 th May 2007
7	QIP sponsored shot term courses on “Computer Hardware & Networking Technologies”	National Institute of Technical Teachers Training & Research,	05 th to 09 th March 2007

		Chennai.	
8	QIP sponsored short term courses on “Instructional Design And Delivery System”	National Institute of Technical Teachers Training & Research, Chennai.	20 th November 2006 to 02 th December 2006
9	QIP sponsored short term courses on “Advanced Processing of Composite Material”	Indian Institute of technology, Roorkee, Uttaranchal	24 th to 28 th July 2006
10	TEQIP sponsored Two days National seminar on “Electronic Engine Management System”	Madras Institute of Technology, Anna University, Chennai -600 044	10 th to 11 th March 2006
11	UGC sponsored refresher Course on “Mechatronics”	Madras Institute of Technology, Anna University, Chennai -600 044	22 th Nov 2004 to 11 th Dec 2004

Research papers published in Journals

(2003)

1. P.R. Thyla, **L.A.Kumaraswamidhas** and Dr. R. Rudramoorthy,(2003) “Optimisation of operating conditions in Worm Gear Box using Taguchi’s Orthogonal Array”, *Industrial Engineering Journal*, Vol. XXXII(9), pp.14-21. ISSN: 0970 - 2555.

(2006)

1. **L.A.Kumaraswamidhas** and P. Mannar Jawahar, (2006) “Computer Simulation of Lateral Stability Analysis of a Railway Vehicle with Conventional Wheel-Set”, *Journal of Engineering and Technology*, Vol.1 (3), pp.36-45. ISSN: 0973- 2632.

(2011)

1. P. Velmurugan, **L.A. Kumaraswamidhas**, and K. Sankaranarayananasamy, (2011), “Investigation on influence of stiffness and hydro-pneumatic suspension for dynamic analysis of a heavy truck using ADAMS simulation”. *International Journal of Human Factors Modelling and Simulation*, Vol.2 (3), pp.204-221.
2. Kumaraswamidhas, L. A., Velmurugan, P and Sankaranarayananasamy, K. (2011), Optimization of Human Comfort Reaction for Suspended Cabin Tractor Semitrailer Drivers. *World Academy of Science, Engineering and Technology*, Vol. 81(158), pp. 858-864.

(2012)

1. P. Velmurugan, **L. A. Kumaraswamidhas**, and K. Sankaranarayananasamy, (2012), “Measurement of whole-body vibration exposure from unsuspended cabin tractor semi-trailers”. *Human Factors and Ergonomics in Manufacturing & Service Industries*. Vol.22 (6), pp.481-486, **Impact Factor: 0.862 - SCI**.
2. P.Velmurugan, **L.A.Kumaraswamidhas** and K.Sankaranarayananasamy, (2012), “Influence of road surfaces on whole body vibration for suspended cabin tractor semitrailer drivers”, *Journal of low frequency noise, vibration and active control*, Vol.31 (2), pp.75-84, **Impact Factor: 0.60 - SCI**.
3. Aditya Kumar Pandey, **L. A. Kumaraswamidhas** and C. Kathirvelu, (2012), “Analysis of flow induced vibration in super heater tube bundles in utility boilers using computational method”, *International journal of computational Engineering Research*, Vol.2 (2), pp.481-486.
4. Durairajan, A., Kavitha, T., Rajendran, A., and **Kumaraswamidhas, L.A.**, (2012), “Design and manufacturing of Nano catalytic converter for pollution control in automobiles for green environment”, *Indian Journal of Innovation and Development*, Vol.1 (5) pp.314-319.
5. **L.A. Kumaraswamidhas**, B. Sudharsan, S. Girish Krishna and P. Velmurugan, (2012) “Modelling and simulation of non-linear vibration absorber attached to automotive system”, *International Journal of Vehicle Systems Modelling and Testing*, Vol.7 (4), pp.390-404. **Impact Factor: 0.33 – Scopus**
6. Durairajan, A., Suresh M., Kavitha, T., and **Kumaraswamidhas L.A.** (2012), “Advanced Heat Transfer Enhancement Using Nano Fluids- an Overview”, *International Journal of Mechanical and Production Engineering Research and Development*, Vol.2, pp.5-20. **Impact Factor: 3.21**

7. P. Velmurugan, **L.A. Kumaraswamidhas**, and K. Sankaranarayananamy, (2012), "Optimisation of whole body vibration analysis for suspended cabin tractor semitrailer". International Journal of Vehicle Noise and Vibration, Vol.8 (2), pp.152-165. **Impact Factor: 0.36 – Scopus**

(2013)

1. R. K. Upadhyay, **L.A. Kumaraswamidhas**, and Md. S. Azam, (2013), "Rolling Element Bearing Failure Analysis- A Case Study", Case Studies in Engineering Failure Analysis, Vol.1 (1), pp.15-17. **Impact Factor: 0.24 – Scopus**
2. R. K. Upadhyay, and **L.A. Kumaraswamidhas**, (2013) "Condition Based Monitoring of Ch₄15w40 Engine Oil by FTIR, And Analytical Ferrography", International Journal of Mechanical & Production Engineering Research and Development, Vol.3 (1), pp.1-8. **Impact Factor: 3.21.**
3. R. K. Upadhyay, and **L.A. Kumaraswamidhas**, (2013), "Friction behavior of TIN, CrN Coating on AISI 4320 Steel Substrate", International Journal of Mechanical Engineering and Robotics Research, Vol. 2(1) pp-107-109.
4. Muruganandam D., Raguraman D., Sushil Lal Das and **L.A.Kumaraswamidhas** (2013), "Analysis of Functional Parameter on Friction Stir Welding Using Hypergeometric Functions", Advances in Theoretical and Applied Mechanics, Vol 6 (2), pp-71-83.

(2014)

1. P. Velmurugan, K. Sankaranarayananamy, **L.A. Kumaraswamidhas**, and K. Pazhanivel, (2014), "Ride Comfort Analysis of Un-suspended Tractor Semi-Trailer", International Journal of Vehicle Structures & Systems, Vol. 6(4), 104-109. **Impact Factor: 0.23 – Scopus**
2. P. Velmurugan, **L.A. Kumaraswamidhas**, and K. Sankaranarayananamy, (2011), "Whole Body Vibration Analysis for Drivers of Suspended Cabin Tractor Semitrailer. Experimental Techniques". Vol. 38(2), pp.47-53. **Impact Factor: 0.378 – SCI.**
3. R. K. Upadhyay, and **L.A. Kumaraswamidhas**, (2014), "Tungsten/Tungsten Nitride Performance at Elevated Temperature", Materials at High Temperatures, Vol.31 (2), pp.102-108. **Impact Factor: 0.80 – SCI, Taylor & Francis.**
4. R. K. Upadhyay, and **L.A. Kumaraswamidhas**, (2014), "Surface Modification by multi layered W/W₂N Coating", Surface Engineering, Vol.30 (7), pp.475-482. **Impact Factor: 1.32 – SCI, Taylor & Francis**
5. Chandra Prakash Yadav, Sathya Narayan Kumar and **L.A. Kumaraswamidhas**, (2014), "Study on Axial Flow Fan Components and its Failure Affecting the Performance" International Journal for Scientific Research & Development, Vol.2(2), pp.29-32.
6. R. K. Upadhyay, and **L.A. Kumaraswamidhas**, (2014), "On the influence of surfactant over friction properties of steel", Chemical Physics Letter, Vol.608, pp.167-172. **Impact Factor: 2.14 –SCI, Elsevier**
7. R. K. Upadhyay, and **L.A. Kumaraswamidhas**, (2014), "A review on tribology of surfaces and interface", Advanced Materials Letters, Vol.5 (9), pp.486-495. **Impact Factor: 1.93 – Scopus.**
8. K. Karthik Selva Kumar, K. Aruna Devi, and **L.A. Kumaraswamidhas**, (2014) "SPSS: A Data mining tool for analyzing the results of flow induced vibration excitation in an elastically mounted circular cylinder at different interference conditions", Applied Mechanics and Materials, Vol.592-594, pp.2086-2090. **Impact Factor: 0.39 – Scopus.**
9. K. Karthik Selva Kumar, and **L.A. Kumaraswamidhas**, (2014) "A Study on Flow Induced Vibration Excitation in Solid Square Structures", International Journal of Mechanical & Production Engineering Research and Development, Vol.4 (4), pp.15-22. **Impact Factor: 3.21.**
- 10.K. Karthik Selva Kumar, and **L.A. Kumaraswamidhas**, (2014) "Numerical Study on Fluid Flow Characteristics over the Side-by-Side Square Cylinders at Different Spacing Ratios", International Review of Mechanical Engineering, Vol.8 (5). **Impact Factor: 0.65 –Scopus.**
- 11.Dipen Kumar Rajak, **L.A. Kumaraswamidhas**, and S. Das (2014), "An Energy Absorption Behaviour of Foam Filled Structures", Procedia Material Science, Vol.5, pp.164-172. . **Impact Factor: 0.3 – Scopus, Elsevier**
- 12.Dipen Kumar Rajak, **L.A. Kumaraswamidhas**, S. Das (2014), "Mechanical Behaviour and Energy Absorption Foam Filled Structures of Square Section under Compression Loading", Applied Mechanics and Materials, Vol.592-594, pp.1109-1113. **Impact Factor: 0.39 – Scopus.**

- 13.A. Durairajan, T. Kavitha, A. Rajendran, and **L.A. Kumaraswamidhas**, (2014) “Heat transfer intensification by Nano Fluids- an Overview”, Journal of Scientific and Industrial Research, Vol.73, pp.711-712, **Impact Factor: 0.505 – SCI**.
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2. M.Sundaravadivel, **L.A. Kumaraswamidhas** and P. MannarJawahar, 15th and 16th April 2005, “Sensitivity Analysis On Railway Vehicle Stability Using MATLAB”, *National Conference on Globally Competitive Eco-Friendly Technologies in Mechanical and Mechatronics Engineering (GETME – 2005)*, Kongu Engineering College, Erode.

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(2014)

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(2015)

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2. Dipen Kumar Rajak, **L.A.Kumaraswamidhas**, and S.Das, , Evaluation of Microstructure and Compression Behavior of Aluminum-Alloy Foams, International Conference on Chemical, Metallurgy and Material Science Engineering (CMMSE-2015) 10th to 11th August 2015) pp 10-14, **Pattaya, Thailand.**
3. **L.A.Kumaraswamidhas**, Dipen Kumar Rajak and S.Das, Improved Deformation Behavior of Groove Square Mild Steel Tube under Compression Loading, International Conference on Chemical, Metallurgy and Material Science Engineering (CMMSE-2015) 10th to 11th August 2015pp 23-26, **Pattaya, Thailand.**
4. A. Prakash, V.M.S.R. Murthy, K.B. Singh, Chandan Kumar, **L.A.Kumaraswamidhas**, 9th to 10th October 2015, Development of a Handy Methodology for the Selection of Surface Miner in Varied Rock mass Conditions for Mass Production of Coal and Limestone, 2nd National Conference on MENTCA, **ISM Dhanbad, India.**
5. K.Karthick Selva Kumar, **L.A.Kumaraswamidhas**, 9th to 10th October 2015, Investigation on Flow Induced Vibration Excitation and Stability of Mines Transportation System: Cages in Hoist Winder, 2nd National Conference on MENTCA, **ISM Dhanbad, India.**

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2. Jasveer Singh, Aditi Vijay, **L.A. Kumaraswamidhas**, and Nita Dilawar Sharma,(2016) “Determination of pressure distortion coefficient of a piston gauge and its associated Uncertainty - A Monte Carlo Simulation”, in 9th International Conference on “Advances in Metrology – 2016 (AdMet-2016) at CSIR-NPL, New Delhi.
3. Jasveer Singh, **L.A. Kumaraswamidhas** and Nita Dilawar Sharma,(2016) “Simulation Studies on the behavior of a Pneumatic Piston Gauge under the Application of Pressure”, in 2nd India International Science Festival (IISF-2016) at CSIR-NPL, New Delhi.

Membership in Professional bodies like Institute of Engineers:

S.No.	Organization	Membership
1.	The Institution of Engineers (IE India)	Life Member
2.	Operation Research Society of India (ORSI)	Life Member
3.	National Institution for Quality and Reliability (NIQR)	Life Member
4.	Society for Automotive Engineers (SAE INDIA)	Annual Member
5.	Indian Society for Technical Education (ISTE)	Life Member
6.	Tribology Society of India (TSI)	Life Member
7.	Indian Welding Society(IWS)	Life Member
8.	Indian Nuclear Society(INS)	Life Member

Awards / Honours:

- ✓ VikasRathanShiromani Award - Society of Friendship and National Unity 2005.
- ✓ International Gold Star Award - Society of Friendship and National Unity 2006.
- ✓ Mother Teresa Excellence Award – Integrated council for Socio-Economic Progress 2010.
- ✓ Canara Bank Research Publication Award, Indian School of Mines, Dhanbad 2015.

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