

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

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT, Tiruchirappalli	December 2008	Till Date
Lecturer	PSG College of Technology, Coimbatore	June 2008	November 2008

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	IIT Roorkee	2008	Metallurgical and Materials Engineering	Friction Materials
M.E.	Annamalai University	2002	Production Engineering / 8.20 CGPA	Production Engineering
B.E.	Annamalai University	2001	Mechanical & Production Engg./61.8%	Mechanical & Production Engineering
HSC	State Board	1997	63.08%	Mathematics, Physics , Chemistry, Computer Science

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Hostel Warden	NIT Trichy	August 2016	Till Date
Faculty Advisor / PAC Chairman	M.Tech. Manufacturing Technology, NIT Trichy	2015	2017
Faculty Advisor / PAC Chairman	B.Tech. Production Engineering, NIT Trichy	2010	2014
Program Coordinator, Chairman	Prodigy 2014, Production Engineering Assocation	2013	2014
Committee Member (Production Dept.)	Convocation	2009	2014
Scrutiny Member for the Ph.D / M.S. admissions	Department of Production Engineering, NIT Trichy	2014	2016
Purchase Committee Member	Department of Production Engineering, NIT Trichy	2015	Till Now

10. Academic/Administrative Responsibilities outside the University

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Position	Institution	From	To
DC Member	Anna University, Chennai	2013	Till now
	VIT University, Vellore	2009	2015
	Periyar Maniammai University, Vallam	2015	Till now
	PSG College of Technology, Coimbatore	2013	Till now
	Bannari Amman Institute of Technology, Sathyamangalam	2013	Till now

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
NIL	NIL	NIL

12. Fellowships

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

13. Details of Academic Work

(i) Curriculum Development

B.Tech	Production Engineering	PR201 Casting Technology
		PR 210 Metrology (Theory and Lab)
		PRPE20 Processing of Friction Composites
		PR 308 Reliability, Maintenance and Safety Engineering
M.Tech	Manufacturing Technology	PR 622 Smart Materials & MEMS: Design & Fabrication
		PR 617 Manufacturing of Non-Metallic Products

(ii) Courses taught at Postgraduate and Undergraduate levels

Post Graduate

- I. Total Quality Management
- II. Manufacturing of Non-Metallic Products

Undergraduate

- I. Casting Technology
- II. Casting and Welding Technology
- III. Measurements and Metrology
- IV. Metrology and Quality Assurance
- V. Reliability, Maintenance and Safety Engineering
- VI. Engineering Mechanics
- VII. Production Technology - II
- VIII. Industrial Robotics
- IX. Design for Manufacture and Assembly

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(iii) Projects guided at Postgraduate level - 13

(iv) Other contribution(s) – PAC Chairman

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
NIL	NIL	NIL	NIL	NIL

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
NIL	NIL	NIL	NIL

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
04-07 Oct 2015	33 rd Annual SAE Brake Colloquium and Exhibition	International Conference	Presenter	SAE International, USA	Charleston, South Carolina, USA
April 10, 2015	Recent Trends in Efficiency Management in Industries	National Conference	Session Chairperson and Proceedings Co-Editor	Saveetha School of Engineering,	Saveetha University, Chennai
Feb. 13-14, 2014	Advances in Asbestos Free Friction Composites	International Workshop	Participant	IIT Delhi	IIT Delhi
Dec.5-7, 2014	International Conference on Processing and Fabrication of Advanced Materials: XXIII	International Conference	Session Chairperson and Presenter	IIT Roorkee	IIT Roorkee
June 13-	International Conference in	International Conference	Session Chairperson	NIT Trichy	NIT Trichy

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15th, 2014	Mechanical Engineering,				
Dec 30-31, 2012	International Conference on Engineering Materials (ICEM 2012)	International Conference	Presenter	TransTech Publishers	Hotel re Singapore
April 5-6, 2012	National Conference on Computational Intelligence for Modelling and Optimization	National Conference	Session Chairperson	CK College of Engineering	Cuddalore
Feb 26-28, 2012	International Conference in Manufacturing and Industrial Engineering (ICMIE 2012)	International Conference	Presenter	TransTech Publishers	Peninsula Excelcier Hotel, Singapore

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Short Term Course	National (TEQIP-II Sponsored)	June 10-12, 2013	Co-Organizer	NIT Trichy
Workshop	National (DST-SERB Sponsored)	November 5-6, 2015	Organizing Secretary	NIT Trichy
Short Term Course	National (TEQIP-II Sponsored)	July 11-16, 2016	Coordinator	NIT Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Lubrication – mechanisms, types, additives and their selection	Oct.30,31, Nov.01, 2014	CECASE and Dept. of Training and Placement, NIT Trichy
Brake Friction Materials	23 February 2015	Rajiv Gandhi College of Engineering and Technology, Pondicherry
Development and Characterization of Brake Friction Materials	10 April 2015	Saveetha School of Engineering, Saveetha University, Thandalam

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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
NIL	NIL	NIL

20. Academic Foreign Visits

Country	Duration of Visit	Programme
USA (DST-SERB International Travel Scheme)	04-07 Oct 2015	33 rd Annual SAE Brake Colloquium and Exhibition 2015
Singapore	Dec 30-31, 2012	International Conference on Engineering Materials (ICEM 2012)
Singapore	Feb 26-28, 2012	International Conference in Manufacturing and Industrial Engineering (ICMIE 2012)

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
<i>LENIN SINGARAVELU.D,</i> R.Vijay, M.Rahul Ragh	Influence of crab shell on Tribological characterization of eco-friendly products based non-asbestos brake friction materials	SAE Technical Papers		8 pages	27-09-2015	
V.Thiyagarajan, K.Kalaichelvan, R.Vijay, <i>LENIN SINGARAVELU.D</i>	Influence of thermal conductivity and thermal stability on the fade & recovery characteristics of	Journal of Brazilian Society of Mechanical Sciences and Engineering	Volume 38, Issue 4	1207-1219	2016	0.963

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	non-asbestos semi-metallic disc brake pad					
R.Vijay, <i>LENIN SINGARAVELU.D</i>	Experimental investigation on the mechanical properties of Cyperus pangorei fibers and jute fiber-based natural fiber composites	International Journal of Polymer Analysis and Characterization	21 (7)	617-627	2016	1.515
M. Rahul Ragh, R. Vijay, Arvind Venkatramani, <i>LENIN SINGARAVELU.D</i>	Influence of Thermal Resistance Filler and Lubricant on the Pressure and Speed Sensitivity Characteristics of Non Asbestos Low Metallic Disc Brake Pad Formulation	Mechanics and Industry	Accepted			0.559
<i>LENIN SINGARAVELU.D</i> , Uthirapathi .A, Venkata Ramana Reddy P.S, Durai Selvam. M.	Influence of Pulse-on-time on the Performance of Wire Electrical Discharge Machining of Ti-6Al-4V using Zinc coated Brass Wire	Applied Mechanics and Materials	592-594	416-420	2014	
Uthirapathi A, <i>LENIN SINGARAVELU. D</i>	Effect of rotating tool electrode on machining of titanium alloy using electric discharge machining	Advanced Material Research	651	448-452	2013	
ManojKumar kuttuboina, Uthirapathi A, <i>LENIN SINGARAVELU.D</i>	Effect of process parameters in Electric Discharge Machining of Ti-6Al-4V alloy by three different	Advanced Material Research	488-489	876-880	2012	

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	tool electrode materials					
<i>LENIN SINGARAVELU.D,</i> Chandra K., Misra P.S.	New Processing Technology for the manufacture of Metallo-ceramic brake pads	Powder Metallurgy	54(2)	118-126	2011	0.741

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
M. Rahul Ragh, R. Vijay, Arvind Venkatramani, <i>LENIN SINGARAVELU.D</i>	Effect of lubricant and thermal resistance filler on the pressure and speed sensitivity characteristics of non-asbestos low metallic disc brake pad formulation	Proceedings of Malaysian International Tribology Conference 2015	165-166	Tribology	Penang, Malaysia	2015
<i>LENIN SINGARAVELU D,</i> Vijay R, Rahul Ragh M	Influence of crab shell on Tribological characterization of eco-friendly products based non-asbestos brake friction materials	33 rd Annual SAE Brake Colloquium and Exhibition, 2015 (published as SAE Technical Paper 2015-01-2676, 2015)	4	Brakes	Charleston, South Carolina, USA	2015

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<i>LENIN SINGARAVELU .D,</i> Uthirapathi .A, Venkata Ramana Reddy P.S, Durai Selvam. M.,	Influence of Pulse-on-time on the Performance of Wire Electrical Discharge Machining of Ti- 6Al-4V using Zinc coated Brass Wire	International Conference in Mechanical Engineering, (also published in Applied Mechanics and Materials Vols. 592-594, pp416-420)		Mechanical Engineering	NIT Trichy	2014
Uthirapathi A, <i>LENIN SINGARAVELU D</i>	Effect of rotating tool electrode on machining of titanium alloy using electric discharge machining	International Conference on Engineering Materials - ICEM 2012 (also published in Advanced Materials Research, Vol. 651, 2013, pp448-452)		Materials	Hotel Re, Singapore	2012
ManojKumar kuttuboina, Uthirapathi A, <i>Lenin Singaravelu D,</i>	Effect of process parameters in Electric Discharge Machining of Ti- 6Al-4V alloy by three different tool electrode materials	International Conference in Manufacturing and Industrial Engineering - ICMIE 2012 (also published in Advanced Materials Research, Vols.488-489, 2012, pp876- 880)		Manufacturing and Industrial Engineering	Peninsula Excelcier Hotel, Singapore	2012
<i>LENIN SINGARAVELU D,</i> Chandra, K., Misra P.S.	Tribological Studies of Hot Powder Forged Iron based Brake pads	Proceedings of the Second International Conference on Recent Advances in Composite Materials 2007 (ICRACM)	898-902	Composite Materials	New Delhi	2007

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<i>LENIN SINGARAVELU D., Chandra, K., Misra P.S.</i>	A Comparative Study of Wear characteristics for sintered and hot powder forged friction materials'	PM-07 International conference on Powder Metallurgy and Particulate Materials (also published in Transactions of PMAI, Vol. 33, Dec. 2007, pp 43-46)		Powder Metallurgy	Noida	2007
<i>LENIN SINGARAVELU D., Chandra K., Misra P.S.,</i>	Wear Characteristics of Iron based Friction Materials for brake applications	Proceedings of the International Symposium for Research Scholars on Metallurgy and Materials Engineering (ISRS 2006)		Research Scholar's work	IIT Madras, Chennai	2006
<i>LENIN SINGARAVELU D., Chandra K., Misra P.S</i>	Friction and Wear Characteristics of Fe-based Friction Pads for Heavy Duty Brake Applications	Asian Symposium on Materials and Processing 2006		Materials Processing	Sofitel Central Plaza Bangkok, Thailand	2006

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
NIL	NIL	NIL	NIL	NIL

(D) Patent(s)

Author(s)	National/ International	Patent No.	Title	Grant Date	Filling Date
Mishra Prabhu Shanker, Chandra Kamlesh, <i>LENIN SINGARAVELU D.</i>	National	260479	Iron based cermet friction materials/composites/ brake elements with built-in backing plates	05-06-2014	11-07-2006