

STAFF BIO – FORM

Name : Dr. B. VIJAYA RAMNATH

Name of the Department: MECHANICAL ENGINEERING Staff ID: ET00ME01

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2	Area of Specialization	Mechanical & Production Engineering	
3	Experience:	Total Teaching- 21 Years: 10 months Polytechnic: 11 months	
4	Number of Workshops/ Conferences/ FDP Attended	Workshop & symposium- organised -7 National & Int. Conference-organised -3 AICTE/Anna uty: FDP/SDP ORGANISED-3	
5	Publication details;	Journal: National: 6 International: 170	
		Conference: National: 84; International: 203	
6	Total Citations	2332	
7	H index: i 10 index	22 39	
8	Number of Ph.D students produced/Under guidance	10/10	

9	Educational Qualification(s)				
	Qualifications	Specialization	Board / University / Institution	Year of Passing	Percentage
	Ph.D	Lean kitting Assembly system	Anna University, Chennai.	2011	-
	Master Of Engineering	Production Engineering	Madurai Kamraj University, Madurai.	1999	76.5%
	Bachelor of Engineering	Mechanical Engineering	University of Madras, Chennai.	1997	68%
	Diploma	Mechanical Engineering	Tamilnad Polytechnic, Madurai.	1994	86%

	SSLC	-	School Of Education, Tamilnadu.	1991	87%
10	Professional Societies Membership : ISTE, SAE,IIIE				

11	Experience in our Institution:						
	Name of the Organization	Designation	Period		Nature of work	Experience	
			From	To		Years	Month
	SRI SAIRAM ENGINEERING COLLEGE	Head of Department & Professor	1.4.2019	Till date	TEACHING AND ACADEMIC WORKS	-	-
	SRI SAIRAM ENGINEERING COLLEGE	Professor	11.8.2011	Till date		8	6
	SRI SAIRAM ENGINEERING COLLEGE	Assoc. Professor	1.8.2010	31.7.2011		1	0
	SRI SAIRAM ENGINEERING COLLEGE	Asst. Professor	1.8.2008	31.7.2010		2	0
	SRI SAIRAM ENGINEERING COLLEGE	Senior Lecturer	1.8.2005	31.7.2008		3	0
	SRI SAIRAM ENGINEERING COLLEGE	Lecturer	31.1.2000	31.7.2005		5	6
	Thiagarajar College of Engineering, Madurai.	Lecturer (Visiting Professor)	1.8.1998	31.12.1999		1	4
	Sri Balaji Polytechnic College, Chennai.	Lecturer	1.8.1997	22.7.1998		1	-
M.I.T Campus, Anna University	Visiting Faculty For Part Time B.E. degree	2004	2017	-		-	
IIITDM, Kanchipuram	Visiting Faculty-Regular M.Tech and B.Tech	2013	2014	-		-	

12	Details of Ph.D Guided / Guiding				
	Name of the Research scholar	University	Registration No. & Year of registration	Title of the Research	Status Course work/Confirmation/Synopsis/Thesis/Completed
1)	P.Subramanya Reddy(Joint Supervisor for Mr.Subramanya Reddy)	Anna University	1315239832/ 2013	Mechanical and Machining behaviour of Hybrid Aluminium Metal Matrix Composites	Ph.D Completed
2)	P.Kaliappan	Anna University			Ph.D Completed
3)	Dr.K.Venkataraman	VELS University	UP12G9600006/ 2012	Implementation of Lean Production System in a Manufacturing Environment	Ph.D Completed
4)	Dr.V.M.Manickavasagam	VELS University	UP12G9600004/ 2012	Investigation of Mechanical and machining characteristics of Abaca based Hybrid Composites	Ph.D Completed
5)	P.V.Krishnan	VELS University	2K10MS077 / 2010	Analysis and implementation of Lean Management and Manufacturing principles for Optimizing Work-in-Process Inventory	Ph.D Completed
6)	A.Siddique Ahmed Ghias	VELS University	UP13G9600004/2013	Mechanical and Wear behaviour of Hybrid Aluminium Metal Matrix Composites	Ph.D Completed
7)	R.Sharavanan	VELS University	UP14G9600002/2014	Fiber Composites	Ph.D Completed

8)	S.Sharavanan	VELS University	UP14G9600001/2014	Study of electrical properties of fiber Composites	Ph.D Completed
9)	S.Rajesh	St.Peter's University	SP13MED502/2013	Studies on Mechanical, Wear and machining behaviour of Twisted Aramid Natural Fibre composite	Ph.D Completed
10)	C.Parswajinnan	SCSVMV University, Kanchipuram	K14014/2014	Investigation and Characterization of Nano particle reinforced Aluminium Composites	Ph.D Completed
11)	R.Srimurugan	AMET University	2014395101/2014	Polymer Matrix Composites	Synopsis Meeting Completed
12)	Balachandar M	Anna University	1312219166/ Jan-2013	Aluminium Metal Matrix Composites	Synopsis Meeting Completed
13)	Alagarraja K	Anna University	16132997187/ Jul-2016	Sandwich Composites	Confirmation Meeting completed
14)	Murali B	Anna University	1614299245/Jan-2016	Particulate Composites	Confirmation Meeting completed
15)	Vijay B	Anna University	16142997310/Jul-2016	Metal matrix Composites	Confirmation Meeting completed
16)	Karthick P	Anna University	16142997311/Jul-2016	Jackfruit fiber Composites	Confirmation Meeting completed
17)	Ramakrishnan G	Anna University	17152991107/Jan-2017	Investigation of Mechanical and degradation behaviour of Friction Stir Welded Aluminium Metal Matrix Composites	Confirmation Meeting completed

13	<p>Patents Details :</p> <ol style="list-style-type: none"> 1. Development of Polypropylene Based Nylon Glass Filled Composite and Acacia Fibre Composite – 201741020720 2. Smart multipurpose agricultural companion (in progress)patent number : 202041006864
14	<p>International Conference (s) :</p> <ol style="list-style-type: none"> 1. Vijaya Ramnath. B, Elanchezhian .C, and Kesavan.R, " Productivity improvement of an ELR belt assembly system using Lean Manufacturing", Proceedings of International Conference on International Conference on Global business strategy in competitive Environment, Sri Sai Ram Institute of Management studies, Sri Sairam Engineering College, Chennai, Proc. pp.223,2007. 2. Vijaya Ramnath. B, Elanchezhian .C, and Kesavan.R, " Lean Manufacturing for reducing Loading, Unloading and Cycle Time", Proceedings of International Conference on International conference -FAME-2008, Dept.of Mechanical Engineering, MEPCO Engineering College, Sivakasi. Proc. pp .154, 2008. 3. Vijaya Ramnath. B, Elanchezhian .C, and Kesavan.R, " Assembly Line Optimization through Lean Manufacturing", Proceedings of International Conference on International conference on innovations, Department of Commerce, Loyola college, Chennai, Proc. pp.13,2009. 4. Vijaya Ramnath. B, Elanchezhian .C, and Kesavan.R, " Value stream mapping – A tool for implementing Lean Manufacturing", Proceedings of International Conference on International Conference on Impact of Economic crisis in Global business scenario, Sri Sairam Institute of Management studies, Sri Sairam Engineering College, Chennai, Proc. pp.421,2009. 5. Vijaya Ramnath. B, Elanchezhian .C, and Kesavan.R, " Batch Size Optimization Through Lean Manufacturing For A Constrained Changeover Time", Proceedings of International Conference on International Conference on Impact of Economic growth in Global market, Delhi University, New Delhi,2009. 6. Vijaya Ramnath. B, Elanchezhian .C, and Kesavan.R, " A Multi Attribute Decision Making Model for Selecting Suitable Assembly Method among Line side, Lean-kitting and Kanban assembly", Proceedings of International Conference on International Conference on Advances in Industrial Engineering Applications, Dept. of Industrial Engg., Anna University, Chennai, Proc. pp.MC 02, 2010. 7. Vijaya Ramnath. B, Elanchezhian .C, and Kesavan.R, " Goal Programming approach to find Optimal Batch Size", Proceedings of International Conference on Innovation, management systems, ACCEE-SINGAPORE", Proc. Pp. M32, 2010. (Proceeding published by World Academic Press.) 8. Vijaya Ramnath. B, Elanchezhian .C, and Kesavan.R, " Optimal Batch Size Model for a constrained changeover Time", Proceedings of International Conference on International Joint Journal conference in Engineering, Trivandram, Proc. Pp. M182, 2010. 9. Vijaya Ramnath, B., Raman Bharath.V.R. "Suitability Assessment of TPM through Fuzzy Based Simulation Model", Proceedings of International Joint Journal conference in

Engineering and Technology, Thiruvalluvar College of Engineering and Technology, Vandavasi ,Proc. Pp. 258-262, 2010.

10. Vijaya Ramnath. B, Elanchezhian .C, and Kesavan.R,” A multi dimensional decision making model for selection of optimal assembly method”, Proceedings of International Conference on International Conference on Operational Research for Urban And Rural Development, Dept. of Mechanical Engg., Thiagarajar College of Engineering, Madurai, Proc. Pp.45, 2010.

11. R.Senthil Kumar and B.Vijaya Ramnath ,” Design And Fabrication Of 3D Syskevis Metrisis”, **Proceedings of 2nd International Conference on Mechanical And Aerospace Engineering, Bangkok, Thailand , July 29-31, 2011.**

12. B.Vijaya Ramnath, “Reliability analysis and redesign of an automobile propeller shaft”, **Proceedings of 26th International conference on CAD/CAM, Robotics, and Factories of future 2011, July 26-28 th July, Malaysia.**

13. Dr.B.Vijaya Ramnath, “ Development of portable facing machine tool for machining of tube sheet and shell of a heat exchanger”, **Proceedings of International Conference on 2011 International Workshop on Computer-Aided Design, Manufacturing and Management (CADMM 2011) Hong Kong, During 12-13, December 2011 and also available in ASME digital library.**

14. Dr.C.Elanchezhian and Dr.B.Vijaya Ramnath “Automated equipment for characterization of web media COF & stiffness measurement “**Proceedings of ICIII 2012 held at Singapore during March 17 - 18, 2012.**

15. Dr. B.Vijaya Ramnath “Modification in automobile air condition system using turbines for improving fuel efficiency” **Proceedings of ICAMAME 2012 held at Dubai during 29-1-2012 and 31-1-2012.**

16. Dr.B.Vijaya Ramnath, C.Vishal, Chiranjeev.P.Jain, “Optimization of Product Development time through lean manufacturing”, **Proceedings of ICMAE 2012 held at Paris, France during 07-7-12 and 08-7-12.**

17. Dr.B.Vijaya Ramnath, Sriram Srinivasan, R.Sathyanarayan, L.Srivatsan, “MCDM Model for selection of optimum machining process “, Proceedings of AMPT 2012 held at **Australia**, organized by University of Wollongong during 23-9-12 and 26-9-12.

18. Jai Vignesh. M, Harikrishnan.R, Elanchezhian .R, Vijaya Ramnath. B and Elanchezhian .C,” Fabrication and Characteristics of Al₂O₃-Sic Reinforced Aluminium Alloy Matrix Composites by Stir Casting Technique”, Proceedings of ICCIAMR -2013, Dept. of Mechanical Engineering, Vel's University, Chennai. Proc. vol.AB; pp.130, 2013.

19. Gladwin Immanuel. R and Vijaya Ramnath. B,” Fabrication and Characteristics of Al₂O₃-Sic Reinforced Aluminium Alloy Matrix Composites by Stir Casting Technique”, Proceedings of ICCIAMR -2013, Dept. of Mechanical Engineering, Vel's University, Chennai. Proc. vol.AB; pp.117, 2013.

20. Bala Abinesh. C and Vijaya Ramnath. B,” Fabrication & Analysis of Mechanical Behaviour of Polymer Composites”, Proceedings of ICCIAMR -2013, Dept.of Mechanical Engineering, Vel's University, Chennai. Proc. vol.AB; pp.57, 2013.

- 21.** Surendar.S.S, Pandyaraj .V and **Vijaya Ramnath. B,**” Designing of L3-L4 Intat and Defected Model of Lumbar Spine in a Human Body”, Proceedings of ICCIAMR -2013, Dept. of Mechanical Engineering, Vel’s University, Chennai. Proc. vol.AB; pp.55, 2013.
- 22.** Sathish Kumar .M, Elanchezhian .C and **Vijaya Ramnath. B,**” Experimental study and Mechanical Behaviour of GFRP Composites with Varying Thickness”, Proceedings of ICCIAMR -2013, Dept. of Mechanical Engineering, Vel’s University, Chennai. Proc. vol.AB; pp.25, 2013.
- 23.** Manoj Durai. D,Venkataraman. K and **Vijaya Ramnath. B,**” Advance of Suspension for Automotive Passenger Vehicle”, Proceedings of ICCIAMR-2013, Dept. of Mechanical Engineering, Vel’s University, Chennai. Proc. vol.AB; pp.22, 2013.
- 24.** Vetre Selvan .E,Venkataraman. K and **Vijaya Ramnath. B,**” Optimization of Concept Selection Process in NPD Cycle Through Fuzzy Logic”, Proceedings of International Conference on ICCIAMR-2013, Dept. of Mechanical Engineering, Vel’s University, Chennai. Proc. vol.AB; pp.16, 2013.
- 25.** Hemalatha. J, Elanchezhian .C and **Vijaya Ramnath. B,**” Experimental study and Mechanical Behavior of Glass and Carbon Fiber Reinforced Composites at Varying Strain rates”, Proceedings of International Conference on ICCIAMR -2013, Dept.of Mechanical Engineering, Vel’s University, Chennai. Proc.vol.AB; pp.14, 2013.
- 26.** Prabhu Mani Rathinam. S,Venkataraman. K and **Vijaya Ramnath. B,**” Optimization of Concept Selection Process Using Artificial Neural Network”, Proceedings of International Conference on ICCIAMR-2013, Dept. of Mechanical Engineering, Vel’s University, Chennai. Proc. vol.AB; pp.2, 2013.
- 27.** Hemalatha. J, Elanchezhian .C and **Vijaya Ramnath. B,**” Mechanical Behavior of Glass and Carbon Fiber Reinforced Composites at Varying Strain rates and Temperatures”, Proceedings of International Conference on ICAMEE-2013, Dept.of Mechanical Engineering, Dr. M.G.R Educational and Research Institute University, Chennai. Proc. pp .73, 2013.
- 28. B.Vijaya Ramnath,** R. Niranjana, S. Junaid Kokan, R. Sathya Narayanan, S. Rajesh, and V.M.Manickavasagam, “Green Natural Fibre Composite: Concoction and Testing of Abaca Composite”, Proceedings of International Conference on INCAMA-2013, Dept. of Mechanical Engineering, Kalasalingam University, Srivilliputtur. Proc. pp.36-43, 2013.
- 29.** Vetre Selvan .E,Venkataraman. K and **Vijaya Ramnath. B,**” Developing Frame Work for Lean based New Product Development ”, Proceedings of International Conference on INCAMA-2013, Dept. of Mechanical Engineering, Kalasalingam University, Srivilliputtur. Proc. pp.36-43, 2013.
- 30. B.Vijaya Ramnath,** C Vinodh Krishna, S Karthik, K Saravanan, V.M. Manickavasagam and C.Elanchezhian “Evaluation of the Flexural Properties of Pineapple Reinforced Polymer Composite for Automotive and Electrical Applications”, Paper ID: 54, **Proceedings of The 3rd International Conference on Advanced Materials and Engineering Materials, Singapore, December.14-15, 2013.**
- 31. B.Vijaya Ramnath,** C Vinodh Krishna, S Karthik, K Saravanan, V.M. Manickavasagam and C.Elanchezhian “Experimental Investigation of Tensile Properties of Manila Fibre Reinforced Polymer Composite ”, Proceedings of **Twenty-Second International Conference on Processing and Fabrication of Advanced Materials (PFAM XXII), Singapore, 18-20**

December 2013.

32. B.Vijaya Ramnath , K. Venkatraman , L Vinoth Selva Bruce, “Application of Analytic Network Process In Lean Production System Implementation” Thiruvalluvar College of Engineering and Technology/ ICFTME-2014

33. B.Vijaya Ramnath, C.Elanchezhian, S.P.Saikerthi, “Investigation And Analysis of Mechanical Properties of Boron Carbide Reinforcement On Aluminium 6061- B₄c-Sic Composite” Thiruvalluvar College of Engineering and Technology/ ICFTME-2014

34. C.Elanchezhian, **B.Vijaya Ramnath**, K Praveen Kumar, “ Estimation And Analysis of Physical, Mechanical, Morphological And Water Absorption Properties of Wood Flour Filled Polypropylene Composite” Thiruvalluvar College of Engineering And Technology/ ICFTME-2014

35. B.Vijaya Ramnath, C.Elanchezhian, P Krishnakumar, “Fabrication And Investigation of Mechanical Behavior of Polypropylene And Glass Fiber Based Golf Shaft” Thiruvalluvar College of Engineering and Technology/ ICFTME-2014

36. B.Vijaya Ramnath , K. Venkatraman, S.Kannappan, “ Application of Analytic Hierarchy Process In Lean Production System Implementation” Thiruvalluvar College of Engineering and Technology/ ICFTME-2014

37. B.Vijaya Ramnath , V.M.Manickavasagam, J Jenish, “ Experimental Investigation On Mechanical And Moisture Behaviour of Natural Fiber Composites” Thiruvalluvar College of Engineering and Technology/ ICFTME-2014

38. C.Elanchezhian, **B.Vijaya Ramnath**, N.Arun Kumar, “An Analysis To Optimize The Process Parameters of Friction Stir Welded AA7075 Aluminium Alloys” Thiruvalluvar College of Engineering and Technology/ ICFTME-2014.

39. B.Vijaya Ramnath, C.Elanchezhian, V.M.Manickavasagam,Vishal Chandrasekar, Bala Avinash, ”Investigation of Influence of Resin on Mechanical Behaviour of Glass Fiber/SiC Reinforced and SiC Polymer Composites”, Proceedings of International conference on ICMPC-2014, Dept. of Mechanical Engineering, GRIET, Hyderabad. Proc. pp.XXX, 2014.

40. C.Elanchezhian,**B.Vijaya Ramnath**, J.Hemalatha, ”Mechanical Behaviour of Glass and Carbon Fibre Reinforced Composites at Varying Strain Rates and Temperature”, Proceedings of International conference on ICMPC-2014, Dept. of Mechanical Engineering, GRIET, Hyderabad. Proc. pp.XXX, 2014.

41. B. Vijaya Ramnath, C.Elanchezhian, Vishal Chandrasekhar, A. Arun Kumar, S. Mohamed Asif, G.Riyaz Mohamed, D. Vinodh Raj ,C .Suresh Kumar, ” Analysis and Optimization of Gating System for Commutator End Bracket”, Proceedings of International conference on ICMPC-2014, Dept. of Mechanical Engineering, GRIET, Hyderabad. Proc. pp.XXX, 2014.

42. K. Venkataraman, **B.Vijaya Ramnath** , V.Muthu Kumar , C.Elanchezhian, ”Application of valve steam mapping for reduction of cycle time in a machining process”, Procedia Materials Science, Volume 6, 2014, Pages 1187-1196

43. C. Elanchezhian, N.Arun kumar and **B.Vijaya Ramnath** “An analysis to optimize the process parameters of friction stir welded AA7075 aluminium alloys” Proceedings of

International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, VELS university, Chennai. Proc. pp.XXX, 2014.

44. C.Elanchezhian, **B.Vijaya Ramnath** ,Praveen Kumar.K, Saikeerthi.S.P, M.Sathish kumar, 'Determination Of Mechanical Properties Of Notched Weft Knitted Glass Fiber In Variable Thickness Composites', Proceedings of International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, VELS university, Chennai. Proc. pp.XXX, 2014.

45. B. Vijaya Ramnath, Rajesh S , C. Elanchezhian , V. Vignesh, V. Vijai Rahul, V.Tamilselvan , S.U. Sathya Narayanan 'Investigation of Mechanical behaviour of Glass fibre based SiC polymer composites', Proceedings of International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, VELS university, Chennai. Proc. pp.XXX, 2014.

46. C. Chaithanyan, T. Panneerselvam, S. Raghuraman , **B. Vijaya Ramnath**, 'Investigation of Tensile behavior of Sisal and Coir Reinforced Hybrid Composites using Vinyl Ester Resin', Proceedings of International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, VELS university, Chennai. Proc. pp.XXX, 2014.

47. V.M.Manickavasagam, **B Vijaya Ramnath**, C Elanchezhian , J Jenish S.Jayavel V.Muthukumar, 'Investigation on impact and compression Properties of Pineapple Reinforced Polymer Composite' Proceedings of International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, VELS university, Chennai. Proc. pp.XXX, 2014.

48. Vijaya Ramnath B , Vishal Chandraseker, Pithchai Pandian S, Sundarrajan R, Santosh Shankar A, Vickneshwaran S, 'Modelling And Analysis Of Extrusion Die And Bolt Ejector Pin', Proceedings of International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, VELS university, Chennai. Proc. pp.XXX, 2014.

49. B.Vijaya Ramnath , K.Venkatraman S.Venkatram, Sohil Thomas , M.Maheshwaran , N.Dinesh, ' Powered Two-Wheeler With Integrated Safety Using Recurdyn Multi-Body Dynamics' , Proceedings of International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, VELS university, Chennai. Proc. pp.XXX, 2014.

50. B. Vijaya Ramnath, C. Parswajinan, C. Elanchezhian, S. V. Pragadeesh, P. R. Ramkishore, V. Sabarish, 'A Review on CNT Reinforced Aluminium and Magnesium Matrix Composites', Proceedings of International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, VELS university, Chennai. Proc. pp.XXX, 2014.

51. C.Elanchezhian, S.Praveen Kumar and **B.Vijaya Ramnath** "Estimation of Physical, Mechanical and Morphological Properties Of Wood Flour Filled Polypropylene Composite" Proceedings of International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, VELS university, Chennai. Proc. pp.XXX, 2014.

52. C.Elanchezhian, S.Praveen Kumar and **B.Vijaya Ramnath** "Estimation Of Physical, Mechanical and Morphological Properties Of Wood Flour Filled Polypropylene Composite" Proceedings of International conference on ICMOC-2014, Dept. of Mechanical Engineering, Noorul Islam university, Kumaracoil. Proc. pp.XXX, 2014.

53. C. Elanchezhian, N.Arun kumar and **B.Vijaya Ramnath** "An analysis to optimize the process parameters of friction stir welded AA7075 aluminium alloys" Proceedings of International conference on ICMOC-2014, Dept. of Mechanical Engineering, Noorul Islam university, Kumaracoil. Proc. pp.XXX, 2014.

54. Mr.K.Venkataraman, **Dr.B.Vijaya Ramnath** , Mr.G.Swaminathan , Mr.N.Aravind “Selection of Manufacturing Method using Artificial Neural Network” Proceedings of International conference on ICMOC-2014, Dept. of Mechanical Engineering, Noorul Islam university, Kumaracoil. Proc. pp.XXX, 2014.

55. Vijaya Ramnath B Manickavasagam V.M, Elanchezhian C, Karthik S, Vinodh Krishna C, Saravanan K “Investigation of Tensile Properties of Manila Fibre Reinforced Composite” Proceedings of International conference on ICMOC-2014, Dept. of Mechanical Engineering, Noorul Islam university, Kumaracoil. Proc. pp.XXX, 2014.

56. Vijaya Ramnath B., C. Parswajinan, C. Elanchezhian, R.Gladwin Immanuel, RM.Annamalai, S.Aravind “Investigation of tensile property of Aluminium Sic metal matrix composite” Proceedings of International conference on ICMOC-2014, Dept. of Mechanical Engineering, Noorul Islam university, Kumaracoil. Proc. pp.XXX, 2014.

57. B Vijaya Ramnath, S Rajesh, C.Elanchezhian, Vishal Chandrasekhar, Bala Avinash, “ Investigation on influence of resin on Tensile behaviour of glass fibre-siC Polymer Reinforced Composites” Proceedings of International conference on ICMOC-2014, Dept. of Mechanical Engineering, Noorul Islam university, Kumaracoil. Proc. pp.XXX, 2014.

58. M. Jaivignesh and B.Vijaya Ramnath “Design and analysis of disc plough for agricultural industry”, Proceedings of International conference on AFHAFBC-2014, New Delhi, 30-31 August 2014, Proc. pp.91 – 101.

59. V.S. Srinivasan, S. RajendraBoopathy, **B. Vijaya Ramnath** , ‘Investigation on Shear Behaviour of Flax-kenaf Hybrid Composite’, Proceedings of International conference on GMEE 2014, Hong Kong, 21-22 September 2014,Proc. Pp11.

60. V.S. Srinivasan, S. RajendraBoopathy, **B. Vijaya Ramnath** , ‘A Review on Fabrication And Evaluation Of Tensile Properties Of Kenaf- Flax Hybrid Composite ’, Proceedings of International conference on ICMSSM-2014, Paper ID: M373.

61. B. Vijaya Ramnath, V.M. Manickavasagam, C. Elanchezhian, A. Santhosh Shankar, R. Sundarajan, S. Vickneshwaran, S. Pithchai Pandian, ‘A Review on Investigation on Flexural and Impact Properties of Abaca and Manila Hybrid Composite’, Proceedings of International conference on GMEE 2014, **Hong Kong**, 21-22 September 2014,Proc. pp.9.

62.V.M. Manickavasagam, **B. Vijaya Ramnath**, C.Elanchezhian, V. Vignesh ,V. Vijai Rahul S.U. Sathya Narayanan, V.Tamilselvan, ‘A Review on Investigation on Compression and Hardness Properties of Abaca and Manila Hybrid Composite ’, Proceedings of International conference on ICMSSM-2014, Paper ID: M380.

63. B. Vijaya Ramnath, C . Parswajinan, C. Elanchezhian, S. V. Pragadeesh, C. Kavin, P. R. Ramkishore, V.Sabarish, ‘A Review on Experimental Investigation on Compression and Chemical Properties of Aluminium Nano Composite’, Proceedings of International conference on ICMSSM-2014, 8- Paper ID: M363.

64. P.V. Krishnan, **B.Vijaya Ramnath**, K.Maran, R.Kesavan, ‘Wastage reduction through Lean Manufacturing in head lamp casing manufacturing process’, Proceedings of International conference - ICAMME 2014, Paper ID: 77.

65. Siddique Ahmed Ghias **B.Vijaya Ramnath**, ‘Investigation of Tensile Property of

Aluminium SiC Metal Matrix', Proceedings of International conference – ICAMME 2014, Paper ID 84.

66. C.Elanchezhian, **B.Vijaya Ramnath**, R.Saisundararam, V.Ramanan, C.S.Siddarth, P.Kandeepa thondaiman, V.Maurya sundar, S.M.Mohammed sadiq, , 'Investigating the weld strength of AA7075 aluminium alloy for TIG, MIG and FSW welding', Proceedings of International conference - ICAMME 2014, Paper ID: 12.

67. S.Rajesh, **B.Vijaya Ramnath**, 'Investigation on influence of resin on Tensile behaviour of glass fibre-sic Polymer Reinforced Composites', Proceedings of International conference - ICAMME 2014, Paper ID55:

68. C. Parswajinan, **B.Vijaya Ramnath**, M.Vetrivel, K.Loganathan, R.Sarvesh, C. Rohit Prasanna, R. N. Karthik Babu, 'Experimental Investigation of Mechanical and Chemical Properties of Aluminium reinforced with MWCNT', Proceedings of International conference - ICAMME 2014, Paper ID: 58.

69. K.Venkataraman, **B.Vijaya Ramnath**, R.Sarvesh, C.Rohit Prasanna, 'Selection of Manufacturing Method using Artificial Neural Network', Proceedings of International conference - ICAMME 2014, Paper ID: 53.

70. **Vijaya Ramnath B**, Elanchezhian C, JayaKumar C.V , Manickavasagam U. S. Aswin, H. Eashwar, P. Kavirajan, D. Murugan, , 'Investigation of Flexural Characteristics of Flax and Abaca Hybrid Epoxy Composites', Proceedings of International conference - ICAMME 2014, Paper ID: 54.

71. **Vijaya Ramnath B**, Manickavasagam V.M, Elanchezhian C, Kavin C, Karthik Subramanian B, Rahul V , 'Investigation of Tensile Properties of Manila Fibre Reinforced Composite', Proceedings of International conference - ICAMME 2014, Paper ID: 52.

72. Manickavasagam V.M , **Vijaya Ramnath B.**, Elanchezhian C., Sundarajan R., Vickneshwaran S., Santhosh Shankar A., Kaosik R ., Santhosh Kumar K. , 'Evaluation of the double shear and hardness properties of abaca and flax reinforced polymer composite for automotive applications', Proceedings of International conference - ICAMME 2014, Paper ID: 9.

73. Manickavasagam V.M, **Vijaya Ramnath B**, Elanchezhian C, Ramakrishnan G S.Sathish, L.R. Prasanna Venkatesh, S. Pithchai Pandian, 'Investigation Of Tensile Behaviour Of Flax –Abaca Hybrid Epoxy Composite', Proceedings of International conference - ICAMME 2014, Paper ID: 8.

74. C. Parswajinan, **B. Vijaya Ramnath**, M.Vetrivel, S. Bharath, T.Ajay, R. N. Karthik Babu, "Design And Fabrication Of Impact Die For Powder Metallurgy Components", Proceedings of International Conference on Technological convergence for Information, health, food, Energy 2015 (TCIFES 2015), organized by CSIR- CLRI on May 1 & 2 2015.

75. **Dr.B.Vijaya Ramnath**, Mr.S.Rajesh, Dr.C.Elanchezhian, S. Bharath, P. Ramanarayanan Application of MCDM model for Selecting Composite Manufacturing Technique, Proceedings of International Conference on Technological convergence for

Information, health, food, Energy 2015 (TCIFES 2015), organized by CSIR- CLRI on May 1 & 2 2015. (accepted)

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17	<p>National Publications (Indicate WOS /Scopus Indexed) :</p> <ol style="list-style-type: none"> Vijaya Ramnath, B., Elanchezhian, C. and Kesavan, R. "Impact of lean manufacturing on improving productivity of auto components manufacturing industry", Journal of Manufacturing Technology Today, CMTI, Vol. 8, No. 5, pp. 20-26, 2009. Vijaya Ramnath, B., Elanchezhian, C. and Kesavan, R. "Inventory Optimization using kanban system-A case Study", ICFAI Journal of Business Strategy, Vol. 6, No. 2, pp. 56-68, 2009. Vijaya Ramnath, B., Elanchezhian, C. and Kesavan, R. "Application of kanban system for implementing lean manufacturing (a case study)", Journal of Engineering Research and Studies, Vol. 1, No. 1, pp. 138-151, 2010. Vijaya Ramnath, B., Elanchezhian, C. and Kesavan, R. "Lean manufacturing for cycle time reduction in an assembly shop", Journal of Manufacturing Technology Today, CMTI, Vol. 9, No. 6, pp. 11-17, 2010. Vijaya Ramnath, B., Elanchezhian, C. and Kesavan, R. "Setup Time and Changeover Time Reduction through lean Manufacturing Concept - Single Minute Exchange Die: SMED)", Industrial Engineering Journal, Indian Institution of Industrial Engineering, India 2011. Vijaya Ramnath, B., Elanchezhian, C. and Kesavan, R. "A frame work for assessing cost

	<p>effectiveness using lean and AHP – a case study”, Industrial Engineering Journal, Indian Institution of Industrial Engineering, India. 2012</p>
<p>18</p>	<p>Programs Organized :</p> <ol style="list-style-type: none"> 1. Organized Faculty Development Programme Sponsored by Anna University on Total Quality Management in the year 2005. 2. Organized Staff Development Programme (SDP) sponsored by AICTE as coordinator in the year 2011 on Recent trends in manufacturing and management. 3. Received grant for Rs.6 lakhs from AICTE under RPS for reverse engineering of generator engine parts. 4. Organised Symposiums and National Conferences : Symposiums: SAIMECH-07 & SAIMECH -11. National conferences: AIMMS 08 & AIMMMS -12. 5. Organized a workshop on “Youth development “programme for the rural people from various villages which made them as an Entrepreneur on 12-4-2006. 6. Organized Faculty Development Programme (FDP) sponsored by AICTE as coordinator in the year 2013 on “Advancements in materials, manufacturing processes and management systems” between 4th November and 16th November 2013. 7. Organized Co-Chair for International Conference on Mechanical, Materials and Manufacturing Systems-2016 (ICMMMS-2016) on 24th & 25th February, 2016 at Sri Sairam Engineering College, Chennai-44. 8. Organised one day workshop on 11.9.2017 titled “Geometric Dimensioning and Tolerance” in association with CADD centre. 9. Organised one day workshop on 13.9.2017 titled “Product design, reverse engineering and additive manufacturing through 3D printing”, in association with CADDAM Technologies, Tambaram. 10. Organised three days workshop from 15th to 17th November 2017 titled “India design week”, on Fusion 360° in association with ICT Academy. 11. Organised three days workshop between 22 and 24 November 2017 titled “Autodesk Fusion 360°” in association with ICT Academy. 12. Organised three days workshop on 27th to 29th November 2017 titled “Application of fusion 360°” in association with ICT Academy. 13. Coordinated two days Hackathon on 12th and 13th December 2017 titled “India design week 2017”, Hackathon competition in Sairam engineering college campus in association with ICT Academy. 14. Organised three days workshop on “Creo parametric 3D modeling software and its

	<p>applications” between 13-6-2018 and 15-6-2018 in association with CADOpt Technologies, Chennai.</p> <p>15. Organised three days workshop on “Fusion 360 and its applications” between 25-4-2019 and 26-4-2019 in association with ICT Academy, Chennai.</p> <p>16. Organized STTP sponsored by AICTE as coordinator between 24-6-2019 and 29-6-2019 on “-Natural Fiber Composites – Recent Technology for Sustainability and Eco – Friendly Environment”.</p> <p>17. Organized Guest Lecture on Lean and its Philosophy on 24.6.2019.</p> <p>18. Organized ISHRAE Workshop on Overview of HVAC & R Industry on 26.06.2019 to 29.06.2019</p> <p>19. Organized Three days Workshop on Industrial Robotics and its Applications on 05.08.2019 to 07.08.2019.</p> <p>19. Organized “SAIMECH 2K19 INDIA DESIGN CONTEST” titled MAVIS called Mechanical Engineers Active Vision in Integrating Society” on 23.08.2019 along with Association of Mechanical Engineers.</p> <p>20. Organized SAE Guest Lecture titled Terrain Management System on 12-9-2019</p> <p>21. Organized in association with ICT academy a five days workshop on ” 3D Modelling with Fusion 360” from 09.09.2019 to 14.09.2019.</p> <p>19. Organized” Internship Fest 2019” on 09.10.2019 in which around 132 students of the Department got internship.</p> <p>20. organized Six days Faculty Development Training Program on "Working Culture for Professionals" on 11.11.2019 to 16.11.2019</p> <p>21. Organized value added training program on “CREO Parametric 3D modeling” during 3rd -8th February 2020 at Sri Sairam Engineering College in association with caddam technologies private limited.</p>
<p>19</p>	<p>Programs Attended:</p> <ul style="list-style-type: none"> ➤ Attended Anna University Sponsored Faculty Development Program On “computer Aided manufacturing” at MEPCO engineering college in 2003.
<p>20</p>	<p>Funds Received from AICTE,/ UGC / DST/ TNSCST, etc:</p> <ol style="list-style-type: none"> 1. Received Rs. 6 lakhs under AICTE- RPS scheme in 2011 for a project titled Reverse engineering of generator engine parts. 2. Received Rs. 30 lakhs under AICTE as coordinator - Margdarshan scheme NewDelhi in 2019.

21 Any other relevant information:

Recognition & Achievements

1. Adjudged as the best guide by TNSC for the project Speed alarming system for automobiles done by my students in the year 2002.
2. Received best teacher award from Sri Sairam Engineering College since 2001 for producing 100% results in the various subjects.
3. Acting as University Examination Cell in charge between 2001-2008.
4. Received best teacher award from Lion's club of Chennai in the year 2008 and 2010.
5. Acted as Expert committee member for IGNOU –SAPET inspection team.
6. Acted as University Examination external examiner and camp officer for the central valuation conducted by Anna University of Technology, Chennai, 2011.
7. Acted as Jury for the various technical symposium organized in Engineering Colleges in Tamil Nadu, India.
8. Acted as Session Chair for National Conference on NCAME -2013, Dept.of Mechanical Engineering, Sri Sairam Engineering College, Chennai.
9. Acted as Session Chair for National Conference on ETDM -2013, Dept.of Mechanical Engineering, Saveetha Engineering College, Chennai.
10. Acted as Session Chair for International conference ICCIAMR -2013, Dept. of Mechanical Engineering, Vel's University, Chennai.
11. Received Best Paper award for research paper title "An application of supplier selection using analytical networks process and analytical hierarchy in supply chain management" published in Vol. V Issue No. 5 of Industrial Engineering Journal in May 2012. Award presented on 26th October 2013.
12. Received Best professor award from Education today 2013
13. Acted as Session Chair for National conference on ETDTM-14, Dept. of Mechanical Engineering, April 7-8, 2014, Saveetha Engineering College, Chennai.
14. Acted as Session Chair for International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, May 2-3, 2014. VELS University, Chennai.
15. Acted as Session Chair for International conference -ICFTME-2014, Dept.of Mechanical Engineering, March 4 & 5 2014. Thiruvalluvar College of Engineering and Technology Keynote speaker: Lean manufacturing.
16. Acted as Session Chair for International conference - ICAMME 2014, Dept.of Mechanical Engineering, 19 & 20 December 2014, Sairam Institute of technology, Chennai.
17. Acted as Session Chair for International conference - ICMME 2015, Dept.of Mechanical Engineering , 2 & 3 April 2015, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram.
18. Acted as Session Chair for International Conference on Emerging Trends in Engineering Research - ICETER 2015, organised by School of Engineering, on 24 & 25 Apr 2015, Vels University, Chennai.
19. Acted as Session Chair for International Conference on Emerging Trends in Engineering Research - ICETER 2016, organised by School of Engineering, on 20th & 21st October 2016 held at Vels University, Chennai.
20. Received Dr.Radha Krishnan gold medal award given by Global Economic Progress & Research Association, Thiruvannamalai- Sept,5,2015
21. Acted as Session Chair for International Conference on Advances in Materials, Manufacturing & Applied Sciences-17 (ICAMMAS-17) on 30th & 31st March,2017 held at Sri Sairam Institute of Technology, Chennai.
22. Acted as Session Chair for International Conference on ICSRSBEGM17, 22 & 23 September, 2017 held at Sri Sairam engineering college, Chennai.

<p>22</p>	<p>23. Received Chhatra Vishwakarma Award for my project titled "HANDS FREE VEHICLE FOR DISABLED " got second prize in Mechanical Engineering branch in AICTE-ECI Chhatra Vishwakarma Awards -2017, which was held at Delhi on 19th September 2017.</p> <p>23. Acted Session Chair for International Conference on ICAME2018-SRM Institute of Science and Technology 22-24 March.</p> <p>25. Chief coordinator for Margdarshan scheme under AICTE, New Delhi.</p> <p>26. Received Excellent Teacher ICON Award 2019, Uttar Pradesh Book of Records, Uttara Pradesh www.upbr.in.</p> <p>RESOURCE PERSON IN FDP/WORKSHOP</p> <ol style="list-style-type: none"> 1. Faculty development programme organized by Anna University-Chennai, 2010 on the topic "Design and development of Press Tools". 2. Faculty development programme organized by Dept. of production technology, MIT Campus, Anna University-Chennai-44, on June - 2013 on the topic "Jigs, Fixtures and their designs. 3. AICTE sponsored FDP on Advancements In Materials, Manufacturing Processes And Management Systems between 4 and 16, November – 2013. 4. AICTE sponsored FDP on processing and characterization of composites materials including natural fiber reinforced composites between 18 and 31, March – 2015 organised by Sri Sairam Institute of Technology, Chennai. 5. Anna University sponsored FDP on Engineering Metrology and measurement between 30 May and 5 June – 2016 at MIT campus. 6. Guest Lecture on Strength of Materials- Theory & Applications, organized by Agni College of Technology, Chennai in August 2016.
<p>23</p>	<p>ADVISORY COMMITTEE MEMBER FOR INT. CONFERENCES IN INDIA AND ABROAD</p> <ol style="list-style-type: none"> 1. 2014 BOSI EDU HANGZHOU CONFERENCE- The International Conference on Sensors and Materials Manufacturing Science, Bosi. 2. International Conference on Mechanical and Manufacturing Engineering (ICMME-2015) organized by Department of mechanical engineering Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Enathur, Kanchipuram, Tamil Nadu, India 3. Fourth International Conference On Contemporary Engineering And Technology 2015 – 4TH ICET 2015 on March 15, 2015 Chennai. 4. Fourth International Conference On sensors and materials manufacturing science -2015, On January 17-18, 2015, Paris, France. 5. Recent Innovations in Production Engineering-2017 (RIPE-2017)- March 24th & 25th , 2017 held at Madras Institute of Technology, Chennai-44. 6. Technical committee member in 2nd International Conference on Mechanical, Aeronautical and Automotive Engineering, took place in Singapore, from February 24-26, 2018. ICMAA 2018. 7. Advisory member in 3rd International Conference on Materials and Manufacturing Engineering-2018, March 08, 09-2018, SCSVMV, India. 8. Advisory member in Vels Journal of Mechanical Engineering. 9. Advisory member in 3rd International Conference on Materials and Manufacturing Engineering-2018, March 08, 09-2018, SCSVMV, India. 10. Advisory member in 4th International Conference on 'Ergonomic' and 2nd International Conference on 'Industrial Engineering', University of Malaya, Kuala Lumpur, Malaysia, Jalan Universiti, 50603 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia 11. Advisory member in 4th International Conference on Materials and Manufacturing Engineering-2019, SCSVMV, India. 12. Technical member in 5th International Conference on Materials and Manufacturing

24	<p>Engineering-2020, SCSVMV, India.</p> <p>EDITOR IN INTERNATIONAL / NATIONAL JOURNALS:</p> <ol style="list-style-type: none"> 1. International reviewer of International Journal of Engineering Research & Innovation (IJERI), California State University, Northridge, Northridge, CA 91330. 2. Editor in Chief of International Journal of mechanical and manufacturing technology (IJMMT), IR Publications Since 2013. 3. International reviewer of International Journal of Modern Engineering, California State University, Northridge, Northridge, CA 91330 4. International reviewer of The International Journal of Modern Engineering, California State University.
25	<p>JOURNAL REVIEWER FOR ;</p> <ul style="list-style-type: none"> - Journal of Polymer Testing. - Journal of Alloys and Compounds. -Journal of Materials Research and Technology. - Journal of Composite B. - Journal of Building Engineering. - Reviewer for the journal of Current Material Science.
26	<p>RESEARCH SUPERVISOR:</p> <ol style="list-style-type: none"> 1. Anna University, Chennai, 2014 2. Vels University, Chennai 2012 3. AMET University, Chennai ,2014 4. Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya University, Kanchipuram. 2013 5. St.PETER'S University, Chennai 2014.

S.No	Name of the book	Publisher	Year
1.	Computer aided manufacturing	Eswar press, Chennai	2006
2.	Manufacturing Technology-II	Laxmi publications, Delhi	2005
3.	Project Management	Umesh Publications, Delhi	2006
4.	Industrial Economics and Principles of Management	Umesh Publications, Delhi	2006
5.	Industrial Management	Umesh Publications, Delhi	2007
6.	Industrial Engineering	Umesh Publications, Delhi	2007
7.	Fluid Machinery	Umesh Publications, Delhi	2007
8.	Machine tools	Laxmi publications, New Delhi	2009
9.	Operation Research	Umesh Publications,	2008,2011
10.	Ergonomics for manufacturing	SAPET-MBA distance	2010

		education	
11.	Total Quality Management	SAPET-MBA distance education	2010
12.	Environmental management system	SAPET-MBA distance education	2010
13.	Engineering management	Anuradha pub, Chennai	2006
14.	Unconventional machining process	Anuradha pub, Chennai	2005
15.	Special casting process	Anuradha pub, Chennai	2006
16.	Industrial Management	Umesh Publications, Delhi	2010
17.	Productivity management and re engineering	SAPET-MBA distance education	2010
18.	Computer integrated manufacturing	Anuradha pub, Chennai-17, Tamilnadu	2006
19.	Engineering materials and metallurgy	Anuradha pub, Chennai-17	2005-06
20.	Organization Behavior	Umesh Publications Delhi	2006
21.	Basic Mechanical and Civil Engineering	Anuradha pub, Chennai-17, Tamilnadu	2007
22.	Strength of Materials	Anuradha pub, Chennai-17, Tamilnadu	2006-07
23.	Metrology and Measurements	Anuradha pub, Chennai-17, Tamilnadu	2006-07
24.	Manufacturing Technology 1	University Science Press, New Delhi	2004
25.	Total Quality Management	I.K. International Publishers, New Delhi	2006
26.	Production Technology	Eswar Press, Chennai – 17	2005
27.	Quality Management	Eswar Press Chennai – 17	2005
28.	Solid and Fluid Mechanics	Anuradha Publications, Chennai – 17	2007
29.	Design of jigs, fixtures, and press tools	Eswar Press, Chennai – 17	2003
30.	Engineering Metrology	Eswar Press, Chennai – 17	2004
31.	Power Plant Engineering	I.K. International Publishers, New Delhi	2006
32.	Principles of Management	Eswar Press, Chennai – 17.	2005
33.	Process Planning and Cost Estimation	New Age International	2004
34.	Manufacturing Strategy	Vikas Publications, Delhi	2007
35.	Design of Machine Elements	Eswar Press, Chennai – 17	2007

36.	Production Planning and Control	Anuradha Publications, Chennai – 17	2006-07
37.	Engineering Graphics	SAMS Publications	2006-08 Revised 2018
38.	Engineering Economics and Cost Analysis	Anuradha Publications, Chennai – 17	2007-08, revised 2012
39.	Engineering Metrology and Measurements	Anuradha Publications, Chennai – 17	

The following are the referred text books in the various universities in India:

- * Basic Civil and Mechanical Engineering - Anna University- Chennai.
- * Process planning and cost estimation - MIT campus, Anna University.
- *Manufacturing Technology - I - PSG College of Technology
- *Design of Jigs, Fixtures and Press tools - NIIT Kerala, Dr.MGR University
- *Engineering Metrology - PSG College of Technology
- *Principles of Management -MIT campus, Anna University
- * Power plant Engineering - JNTU ,Andhar Pradesh, Biju Patnaik University, Orissa
- * Total Quality Management -Viswesvaraya Technical University, Bangalore
- Manufacturing Strategy -Maharastra Schowhan University, Mumbai