

## Profile

**Name: Dr. B. VIJAYA RAMNATH, M.E., Ph.D**

**Stanford's top 2% scientists in the world-2021 - 2024**


**Professor & Head, Department of Mechanical Engineering,**

**Sri Sairam Engineering College, Chennai-600 044, Tamilnadu, India.**

**AICTE - Chhatra Vishwakarma Awardee-2017**

**AICTE - Margdarshan Coordinator**

**Research Fellow” from 2023 to 2025” at INTI International University, Malaysia.**

1	E-mail id & contact number	Hod.mech@sairam.edu.in Contact No: 8754502223/9841446655	
2	Area of Specialization	Mechanical & Production Engineering	
3	Experience:	Total Teaching- 25 Years: 5 months Polytechnic: 11 months	
4	Number of Workshops/ Conferences/ FDP Attended	Workshop & Symposium- organized -26 National & Int. Conference (AICTE) -organized -4 AICTE/Anna University: FDP/SDP ORGANISED-6 Government funded project completed <b>Rs.47.45 Lakhs</b>	
5	Publication details	<b>Journal:</b>  National journal : 6  International journal : 191- (Scopus :154)  Clarivate analytics / SCI listed journals :29	
		<b>Conference:</b>  National: 86; International: 220	
		<b>Books Published: 35</b>	
		<b>Patents Published: 3</b>	
6	Total Citations	4764; Cumulative impact factor: <b>105.699</b>	
7	H index:  i 10 index  Google Scholar Link Scopus and Vidwan profile Page	34  89  34 92  <a href="https://scholar.google.co.in/citations?user=iIAGys0AAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=iIAGys0AAAAJ&amp;hl=en</a>  <a href="https://www.scopus.com/authid/detail.uri?authorId=54394666400">https://www.scopus.com/authid/detail.uri?authorId=54394666400</a>	

		<a href="https://sairam.irins.org/profile/183567">https://sairam.irins.org/profile/183567</a> <a href="http://www.profvijayaramnath.in">http://www.profvijayaramnath.in</a> <a href="https://www.profvijayaramnath.com/">https://www.profvijayaramnath.com/</a>
8	Ph.D scholars details	Number of Scholars awarded Ph.D degree :15 Number of Scholars currently Doing Ph.D:6
9	Professional Societies Membership: ISTE, SAE, IIIE, IEEE. IWS	

10	Educational Qualification(s)						
	Qualifications	Specialization	Board / University / Institution			Year of Passing	
	Ph.D	Lean kitting Assembly system	Anna University, Chennai.			2011	
	Master of Engineering	Production Engineering	Madurai Kamraj University, Madurai.			1999	
	Bachelor of Engineering	Mechanical Engineering	University of Madras, Chennai.			1997	
	Diploma	Mechanical Engineering	Tamilnad Polytechnic, Madurai.			1994	
	SSLC	-	Dept. of government examinations, M.M.HR, SEC SCHOOL, Madurai Tamilnadu.			1991	
11	Total teaching Experience:						
	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, research, academic and administraiion works	4	4
		Professor	11.8.2011	31.3.2019		7	7
		Assoc. Professor	1.8.2010	31.7.2011		1	0
		Asst. Professor	1.8.2008	31.7.2010		2	0
Senior Lecturer		1.8.2005	31.7.2008	3		0	

		<b>Lecturer</b>	31.1.2000	30.11.2004		4	10
	<b>Thiagarajar College of Engineering, Madurai.</b>	<b>Lecturer (Visiting Professor)</b>	1.8.1998	31.12.1999		1	4
	<b>Sri Balaji Polytechnic College, Chennai.</b>	<b>Lecturer</b>	1.8.1997	22.7.1998		1	-
	<b>M.I.T Campus, Anna University</b>	<b>Visiting Faculty</b>	2004	2017		-	-
	<b>IIITDM, Kanchipuram</b>	<b>Visiting Faculty</b>	2013	2014		-	-
	<b>Chagepond technologies, Chennai</b>	<b>Senior Engineer</b>	1.12.2004	30.6.2005		-	7

12	Doctoral Theses Guidance				
	Name of the Research scholar	University	Registration No. & Year of registration	Title of the Research	Status
1)	P.Subramanya Reddy	Anna University	1315239832/ 2013	Mechanical and Machining behaviour of Hybrid Aluminium Metal Matrix Composites	<b>Ph.D Completed</b>
2)	P.Kaliappan	Anna University	1414239865/2015	Mechanical and machining behavior of Abaca neem hybrid composites	<b>Ph.D Completed</b>
3)	Balachandar M	Anna University	1312219166/ Jan-2013	Aluminium Metal Matrix Composites	<b>Ph.D Completed</b>
4)	Alagarraja K	Anna University	16132997187/ Jul-2016	Sandwich Composites	<b>Ph.D Completed</b>
5)	Murali B	Anna University	1614299245/Jan-2016	Particulate Composites	<b>Ph.D Completed</b>
6)	Dr.K.Venkataraman	VELS University	UP12G9600006/ 2012	Implementation of Lean Production System in a	<b>Ph.D Completed</b>

				Manufacturing Environment	
7)	Dr.V.M.Manickavasa gam	VELS University	UP12G9600004/ 2012	Investigation of Mechanical and machining characteristics of Abaca based Hybrid Composites	<b>Ph.D Completed</b>
8)	P.V.Krishnan	VELS University	2K10MS077 / 2010	Analysis and implementation of Lean Management and Manufacturing principles for Optimizing Work-in-Process Inventory	<b>Ph.D Completed</b>
9)	A.Siddique Ahmed Ghias	VELS University	UP13G9600004/2013	Mechanical and Wear behaviour of Hybrid Aluminium Metal Matrix Composites	<b>Ph.D Completed</b>
10)	R.Sharavanan	VELS University	UP14G9600002/2014	Investigation and analysis of mechanical and machining characteristics of banana, jute based hrybid composite	<b>Ph.D Completed</b>
11)	S.Sharavanan	VELS University	UP14G9600001/2014	Study of electrical properties of fiber Composites	<b>Ph.D Completed</b>
12)	S.Rajesh	St.Peter's University	SP13MED502/2013	Studies on Mechanical, Wear and machining behaviour of Twisted Aramid Natural Fibre composite	<b>Ph.D Completed</b>
13)	C.Parswajinnan	SCSVMV University, Kanchipuram	K14014/2014	Investigation and Characterization of Nano particle reinforced Aluminium Composites	<b>Ph.D Completed</b>
14)	R.Srimurugan	AMET University	2014395101/2014	Polymer Matrix Composites	<b>Ph.D Completed</b>
15)	V.Ravi raj	Anna University	1314219761/PhD	Polymer matrix	

				composites	<b>Ph.D Completed</b>
16)	Karthick P	Anna University	16142997311/Jul-2016	Fiber Composites	Submitted thesis
17)	A.Ravindran	Anna University	21142997260/Jan 2021	Compoistes for marine applications	Doing Course work
18)	L.Ravikumar	Anna University	21142991126/Jan 2021	Compoistes	Confirmation completed
19)	S.Balasubramanian	Anna University	21152991333/jan 2021	Compoistes	Doing Course work
20)	R.Senthil kumar	Anna University	1413239713/jan 2014	FML for ATM application	Submitted thesis
21)	V.Prabhu	Anna University		FSP of MMC	Confirmation completed

### **13. Clarivate analytics / SCI listed journals**

1. B.Vijaya Ramnath. B, R. Niranjan Raja, S. Junaid Kokan, R. Sathya Narayanan, A.R.Rajendra Prasad, C.Elanchezhian and V.M.Manickavasagam, "Evaluation of mechanical properties of abaca-jute-glass fibre reinforced epoxy composite", Materials and design, Volume 51, October 2013, Pages 357-366. (Impact factor: 9.417)
2. B.Vijaya Ramnath. B, C. Elanchezhian, M.Jaivignesh, S. Rajesh, C. Parswajinan, A. Siddique Ahmed Ghias, "Evaluation of Mechanical Properties of Aluminium Alloy-Alumina-Boron Carbide Metal Matrix Composites", Materials and design, Volume 58, June 2014, Pages 332-338. (Impact factor: 9.417).
3. V.S.Srinivasan, S.Rajendra Boopathy D.Sangeetha and B.Vijaya Ramnath. B, "Evaluation of Mechanical and Thermal Properties of Banana-Flax based Natural Fibre Composite", Materials and Design, Volume 60, August 2014, Pages 620-627. (Impact factor: 9.417).
4. B Vijaya Ramnath. B, V.M.Manickavasagam, C Elanchezhian, C Vinodh Krishna, S Karthik, K Saravanan "Determination of mechanical properties of intra-layer abaca-jute-glass fiber reinforced composite", Materials and Design, Volume 60, August 2014, Pages 643-652. (Impact factor: 9.417).
5. B.Vijaya Ramnath. B, C. Elanchezhian, RM. Annamalai, S.Aravind, T. Sri Ananda Atreya, V. Vignesh, C.Subramanian, "Aluminium metal matrix composites – a review", Reviews on advanced materials science, Volume 38, October 2013, Pages 55-60. (Impact factor: 2.842).
6. B.Vijaya Ramnath. B, V.Santhosh Kumar, P.V.Nirmal, S.Karthick, G.Prem Kumar, C. Elanchezhian , S.Rajesh , K.Suresh , :Experimental Investigation of Mechanical behavior of Jute-Flax based Glass Fiber reinforced composite", Fibers and polymers, Volume 15, Pages 1251-1262,2014. (Impact factor: 2.428).

7. B.Vijaya Ramnath. B, R. Sharavanan, M. Chandrasekaran, C. Elanchezhian, R. Sathyanarayanan, R. Niranjana Raja, and S. Junaid Kokan, "Experimental Determination of Mechanical Properties of Banana Jute Hybrid Composite", *Fibers and polymers*, Volume 16, Pages 164-172, 2015. (Impact factor: 2.428).
8. B.Vijaya Ramnath. B, S.Rajesh "Investigation on Mechanical Behaviour of Twisted Natural Fiber Hybrid Composite Fabricated by Vacuum Assisted Compression Molding Technique", *Fibers and Polymers*, Vol.17, No.1, 2016, 80-87. (Impact factor: 2.428).
9. N.Tamiloli, J.Venkatesan, B.Vijaya Ramnath. B, "A Grey-Fuzzy Modeling For Evaluating Surface Roughness And Material Removal Rate Of Coated End Milling Insert "VOL. 84, NO. 13, 2016, 68-82, *Measurement* (Impact factor: 3.927).
10. P.Subramaniya Reddy, R.Kesavan, and B.Vijaya Ramnath. B, "Investigation of Mechanical Properties of Aluminium6061-Silicon Carbide, Boron Carbide Metal Matrix Composite, DOI: 10.1007/s12633-016-9479-8 2016, *Silicon*, (Impact factor : 2.67).
11. E. Naveen , B. Vijaya Ramnath. B , C. Elanchezhian , S.S. Mohamed Nazirudeen, "Influence of organic corrosion inhibitors on pickling corrosion behaviour of sinter-forged C45 steel and 2% Cu alloyed C45 steel", *Journal of Alloys and Compounds* 695 (2017) 3299 to 3309 (Impact factor: 6.371).
12. Kaliappan, Dr. R. Kesavan, Dr. B. Vijaya Ramnath. B, "Investigation on effect of fibre hybridization and orientation on mechanical behaviour of natural fibre epoxy composite", *Bulletin of material science*, VOL.44, 773-782, 2017.(Impact factor: 1.783).
13. P Sathish, R Kesavan, BV Ramnath, C Vishal, "Effect of fiber orientation and stacking sequence on mechanical and thermal characteristics of banana-kenaf hybrid epoxy composite", *Silicon* 9 (4), 577-585. (Impact factor: 2.67).
14. M. Sakthivel · S. Vijayakumar · B. Vijaya Ramnath. B, "Investigation on Mechanical and Thermal Properties of Stainless Steel Wire Mesh-Glass Fibre Reinforced Polymer Composite", *Silicon* (2018). <https://doi.org/10.1007/s12633-018-9801-8>. (Impact factor: 2.67).
15. G. Ramakrishnan, Vijaya Ramnath. B B, C.Elanchezhian Gowtham S, Arun Kumar A "Investigation of mechanical behaviour of basalt-banana hybrid composites", *Silicon*, November, Pp1-10, 2018. (Impact factor : 2.67).
16. P.SanthanaMoorthy, G.B. Bhaskar, Natarjan Raja, Vijaya Ramnath. B B and Sankaranarayanan Gowri, "Mechanical properties and microstructure of glass carbon hybrid composites"; *Materials Testing*, November 2018, Vol. 60, No. 11: Pages 1131-1137. (Impact factor: 1.589).
17. M. Balachandar, B. Vijaya Ramnath. B, C.Elanchezhian and J. Jeykrishnan," Prediction of mechanical properties of Al6061 metal matrix composites reinforced with zircon sand and boron carbide, *Materialpruefung/Materials Testing*, 61(6), pp. 537-542. (Impact factor : 1.589).
18. Alagarraja, Vijaya Ramnath. B, Elanchezhian , "Mechanical and thermal properties of PVC and polyurethane foam hybrid composites", *Materials Testing* May 2020, Vol. 62, No 5. Pages: 544–552, 2020. (Impact factor : 1.589).
19. V Ravi Raj & B Vijaya Ramnath. B, "Mechanical, Thermal and Wear Behavior of SiC Particle Strengthening of PMMA-Toughened Glass-Epoxy Hybrid Composite", *Silicon*, Pages: 1–6, July 2021. (Impact factor : 2.67).
20. B.Murali and B.Vijaya Ramnath, "Experimental Investigation on the stacking Sequence of Kevlar, Aloe vera, Bamboo and Palmyra Palm Fibres/Epoxy Polymer Composites", vol.31, n1, e2021004,

2021. Polímeros. (Impact factor : 1.38)

21. Prof. Idayan A , Dr. C. Elanchezhian, Dr. B. Vijaya Ramnath, and Prof. Palanikumar K, “Wear evaluation and microstructure analysis of cryogenically treated AISI 440C Bearing steel”, Transactions of the Canadian Society for Mechanical Engineering , Volume 46, Number 1, March 2022. (Impact factor : 1.45)
22. Ravi Raj, V., Vijaya Ramnath, B., Mechanical, Thermal and Wear Behavior of SiC Particle Strengthening of PMMA-Toughened Glass-Epoxy Hybrid Composite, Silicon, 2021, 13(6), pp. 1925–1932. (Impact factor : 2.67)
23. Karthick. S., Elanchezhian, Vijaya Ramnath. B , “ Effect of brown rice husk  $\alpha$ Si<sub>3</sub>N<sub>4</sub> on Ni–P composite coating of austenitic AISI 316L steel Taguchi grey relational approach” Biomass Conversion and Biorefinery <https://doi.org/10.1007/s13399-021-02138-W>. (Impact factor : 4.987)
24. Banu Murali , Bindu Madhavan Vijaya Ramnath , Devaraj Rajamani , Emad Abouel Nasr , Antonello Astarita and Hussein Mohamed, “Experimental Investigations on Dry Sliding Wear Behavior of Kevlar and Natural Fiber-Reinforced Hybrid Composites through an RSM–GRA Hybrid Approach”, Materials 2022, 15, 749. <https://doi.org/10.3390/ma15030749>. (Impact factor : 3.623).
25. S Dinesh , C Elanchezhian , B Vijayaramnath , and A Adinarayanan, “Influence of natural fibers on mechanical, thermal, water absorption and morphological characteristics of Kevlar hybrid epoxy composites for shipbuilding application”, Indian Journal of Engineering & Materials Sciences Vol. 29, August 2022, pp. 527-534 DOI: 10.56042/ijems.v29i4.51857. (Impact factor : 0.615)
26. Ravi Raj, V., Vijaya Ramnath, B., Time Dependent Behaviour of PMMA-Toughened Siliconized SiC Strengthened Glass-Epoxy Composite, Silicon, 14(8), pp. 4129-4138,2022. (Impact factor : 2.67)
27. Senthil kumar R. Vijaya Ramnath, B. “Fiber orientation influence on mechanical properties of SiC particles filled epoxy based composites reinforced with Al mesh and unidirectional basalt fibers”, accepted for publication in Silicon volume 15, pages2849–2868 (2023) (Impact factor : 2.67).
28. P. Pandiyaraj, A. Manivannan, C. K. Arvinda Pandian, B. Vijaya Ramnath, Mechanical & Tribological Behaviour of Squeeze Casted Mg/SiC Composites for Defense Applications, Silicon (2023) (Impact factor : 2.67).
29. Karthick P, Vijaya Ramnath B and K. Palani Kumar,” Investigation on Mechanical Behavior of Acacia – Raffia Natural Fiber Composite”, Polymers 2023, 15(15), 3249. (Impact factor: 5).
30. Karthick P, Vijaya Ramnath B, Dinesh , “Innovative utilization of prosopis juliflora bark nanoparticles in hybrid composites for high-performance automotive applications”, Revista Matéria, v.30, 2025.

**14. Funds Received from AICTE and other agency; (Rs.46.45 Lakhs)**

**RESEARCH GRANT :**

1. Agency : All India Council for Technical Education (AICTE) under RESEARCH PROMOTION SCHEME (RPS)  
Grant Title: reverse engineering of generator engine parts  
Amount in USD : Rs.6 lakhs  
Commencement date: 31.3.2011  
Completion Date: 31.12.2015

**ACADEMIC GRANT :**

1. Received **1.75 Lakhs** for Staff Development Programme (SDP) sponsored by AICTE as coordinator in the year 2011 on Recent trends in manufacturing and management.
2. Received **5 Lakhs** for AICTE sponsored FDP on Advancements In Materials, Manufacturing Processes And Management Systems between 4 and 16, November – 2013.
3. Received **2.77 Lakhs** for AICTE sponsored STTP sponsored by AICTE between 24-6-2019 and 29-6-2019 on “- Natural Fiber Composites – Recent Technology for Sustainability and Eco – Friendly Environment”.
4. Received Rs. **30 lakhs** under AICTE as coordinator “Margdarshan scheme” for 3 years in 2019 and settled in 2022.
5. Received **Rs.93,000**, to organize AICTE ATAL FDP on August 2020

**Patents Details :**

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1. A smart watch stand (design patent): 350625-001:4/10/2021, published and granted.
2. Roll Cage System (design patent): 369510-001-22/08/2022, published and granted.
3. Tablet pouches for hassle free unwrapping of tablets (design patent): 373993-001/25-1-23, published and granted.

**International Conference (s) :**

16

1. **Vijaya Ramnath. B. 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. 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. 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. 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. 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. 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. B,** Elanchezhian .C, and Kesavan.R, ” Goal Programming approach to find Optimal Batch Size”, Proceedings of International Conference on Innovation, management systems, **ACCÉE-SINGAPORE**”, Proc. Pp. M32, 2010. (Proceeding published by World Academic Press.)
- 8. Vijaya Ramnath. B. 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, 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. 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. B ,”** 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. B,** “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. B, “** 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. B** “Automated equipment for characterization of web media COF & stiffness measurement “**Proceedings of ICH 2012 held at Singapore during March 17 - 18, 2012.**
- 15. Dr. B.Vijaya Ramnath. B** “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. B,** 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. B,** 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. B** and Elanchezhian .C,” Fabrication and Characteristics of Al<sub>2</sub>O<sub>3</sub>-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. B**,” Fabrication and Characteristics of Al<sub>2</sub>O<sub>3</sub>-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 Abinеш. C and **Vijaya Ramnath. B. 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. 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. 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. 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. 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. 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. 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. 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. B**, R. Niranjan raja, 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. 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. B**, 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. B**, 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. B** , K. Venkatraman , L Vinoth Selva Bruce, “Application of Analytic Network Process In Lean Production System Implementation” Thiruvalluvar College of Engineering and Technology/ ICFTME-2014
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#### **CHAPTER CONTRIBUTION**

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#### **National Publications:**

1. **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.
2. **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.
3. **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,

21	<p>No. 1, pp. 138-151, 2010.</p> <p>4. <b>Vijaya Ramnath. B,</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.</p> <p>5. <b>Vijaya Ramnath. B,</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.</p> <p>6. <b>Vijaya Ramnath. B,</b> Elanchezhian, C. and Kesavan, R. “A frame work for assessing cost effectiveness using lean and AHP – a case study”, Industrial Engineering Journal, Indian Institution of Industrial Engineering, India. 2012.</p>
22	<p><b>Programs Organized :</b></p> <p>1. Organized <b>Faculty Development Programme Sponsored by Anna University</b> on Total Quality Management in the year 2005.</p> <p>2. Organized <b>Staff Development Programme (SDP) sponsored by AICTE as coordinator in the year 2011</b> on Recent trends in manufacturing and management.</p> <p>3. Organised Symposiums: SAIMECH-07 &amp; SAIMECH -11.</p> <p>4. Organised National conferences: AIMMS 08 &amp; AIMMMS -12.</p>

	<p>5. Organized a workshop on “<b>Youth development</b>” programme for the rural people from various villages which made them as an Entrepreneur on 12-4-2006.</p> <p>6. Organized <b>Faculty Development Programme (FDP) sponsored by AICTE as coordinator in the year 2013</b> on “Advancements in materials, manufacturing processes and management systems” between 4<sup>th</sup> November and 16<sup>th</sup> November 2013.</p> <p>7. Acted as <b>Co-Chair for AICTE sponsored International Conference</b> on Mechanical, Materials and Manufacturing Systems-2016 (ICMMMS-2016) on 24<sup>th</sup> &amp; 25<sup>th</sup> February, 2016 at Sri Sairam Engineering College, Chennai-44.</p> <p>8. Organised one day workshop on 11.9.2017 titled “Geometric Dimensioning and Tolerance” in association with CADD centre.</p> <p>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.</p> <p>10. Organised three days workshop from 15<sup>th</sup> to 17<sup>th</sup> November 2017 titled “India design week”, on Fusion 360° in association with <b>ICT Academy</b>.</p> <p>11. Organised three days workshop between 22 and 24 November 2017 titled “Autodesk Fusion 360°” in association with <b>ICT Academy</b>.</p> <p>12. Organised three days workshop on 27<sup>th</sup> to 29<sup>th</sup> November 2017 titled “Application of fusion 360°” in association with <b>ICT Academy</b>.</p> <p>13. Coordinated two days Hackathon on 12<sup>th</sup> and 13<sup>th</sup> December 2017 titled “<b>India design week 2017</b>”, <b>Hackathon competition</b> in Sairam engineering college campus in association with <b>ICT Academy</b>.</p> <p>14. Organised three days workshop on “Creo parametric 3D modeling software and its 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 <b>STTP sponsored by AICTE</b> as coordinator between 24-6-2019 and 29-6-2019 on “<b>-Natural Fiber Composites – Recent Technology for Sustainability and Eco – Friendly Environment</b>”.</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 &amp; 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 “<b>SAIMECH 2K19 INDIA DESIGN CONTEST</b>” 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 <b>ICT academy</b> a five days workshop on ” 3D Modelling with Fusion 360” from 09.09.2019 to 14.09.2019.</p> <p>19. Organized” <b>Internship Fest 2019</b>” 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</p>
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	<p>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>22. Organized 3 days <b>AICTE sponsored FDP</b> on Outcome based education under Margadarshan between 20-2-20 and 23-2-2020.</p> <p>23. Organized <b>AICTE sponsored ATAL FDP</b> on Operation management 31.8.2020 to 4.9.2020.</p> <p>24. Organized 5 days <b>AICTE sponsored FDP</b> on Accreditation Process under Margadarshan between 30-11-20 and 5-12-2020.</p> <p>25. Organized <b>ISTE Sponsored 3 days Workshop on “Research &amp; Development activities”</b> VIRTUAL MODE, from 28.12.2020 and 30.12.2020.</p> <p>26. Organized <b>ISTE Sponsored 5 days Workshop on “Welding Technology”</b> VIRTUAL MODE, from 6.1.2021 and 11.1.2021.</p> <p>27. Organized <b>SAE India Sponsored 5 days Faculty Development Program on Thermal Engineering I</b>, VIRTUAL MODE, from 28.12.2021 and 04.01.2021.</p> <p>29. As a <b>Convenor organized AICTE sponsored International Conference</b> on Advances in Mechanical Engineering – 2021 (ICAME ‘21) on 27<sup>th</sup> &amp; 28<sup>th</sup> January, 2021 at Sri Sairam Engineering College, Chennai-44.</p> <p>28. Organized <b>SAE India Sponsored 5 days Faculty Development Program on Hydraulics and pneumatics</b>, VIRTUAL MODE, from 1.2.2021 and 05.02.2021.</p> <p>29. Organized <b>Online “Faculty Development Programme (FDP) on Applications of Artificial Intelligence in Digital Manufacturing”</b>, in association with NIT-Warangal from 21.02.2022 to 03.03.2022 <b>sponsored by Ministry of Electronics &amp; Information Technology (MeitY) Government of India.</b></p> <p>30. Organized <i>Five days Faculty Development Program on "Product Design Engineering Using Autodesk Fusion 360 with ICT Academy. 01.08.2022 to 05.08.2022 5 Days.</i></p> <p>31. <i>Organized Five days Faculty Development program on "Recent Advancements in Materials &amp; Manufacturing" 22.04.2024 - 26.04.2024.</i></p>
23	<p><b>Programs Attended:</b></p> <p>➤ Attended Anna University Sponsored Faculty Development Program On “computer Aided manufacturing” at MEPCO engineering college in 2003.</p>
24	<p><b>Recognition &amp; Achievements/ Resource person/ Advisory committee member/ Editor/ Reviewer/ Research supervisor</b></p> <p><b>Recognition &amp; Achievements</b></p> <ol style="list-style-type: none"> <li>1. Adjudged as the best guide by TNSCST for the project Speed alarming system for automobiles done by my students in the year 2002.</li> <li>2. Received best teacher award from Sri Sairam Engineering College since 2001 for producing 100% results</li> </ol>



in the various subjects.

3. Received best teacher award from Lion's club of Chennai in the year 2008 and 2010.
4. Acted as Expert committee member for IGNOU –SAPET inspection team.
5. Acted as University Examination external examiner and camp officer for the central valuation conducted by Anna University of Technology, Chennai, 2011.
6. Acted as Jury for the various technical symposium organized in Engineering Colleges in Tamil Nadu, India.
7. Acted as Session Chair for National Conference on NCAME -2013, Dept. of Mechanical Engineering, Sri Sairam Engineering College, Chennai.
8. Acted as Session Chair for National Conference on ETDM -2013, Dept. of Mechanical Engineering, Saveetha Engineering College, Chennai.
9. Acted as Session Chair for International conference ICCIAMR -2013, Dept. of Mechanical Engineering, Vel's University, Chennai.
10. **Received Best Paper award** for research paper titled "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.
11. **Received Best professor award from Education today 2013**
12. Acted as Session Chair for National conference on ETDTM-14, Dept. of Mechanical Engineering, April 7-8, 2014, Saveetha Engineering College, Chennai.
13. Acted as Session Chair for International conference on ICCIAMR-2014, Dept. of Mechanical Engineering, May 2-3, 2014. VELS University, Chennai.
14. 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.
15. Acted as Session Chair for International conference - ICAMME 2014, Dept. of Mechanical Engineering, 19 & 20 December 2014, Sairam Institute of technology, Chennai.
16. Acted as Session Chair for International conference - ICMME 2015, Dept. of Mechanical Engineering, 2 & 3 April 2015, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram.
17. 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.
18. 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.
19. **Received Dr.Radha Krishnan gold medal award given by Global Economic Progress & Research Association, Thiruvannamalai- Sept,5,2015**
20. 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.

21. Acted as Session Chair for International Conference on ICSRSBEGM17, 22 & 23 September, 2017 held at Sri Sairam engineering college, Chennai.
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.
22. Acted Session Chair for International Conference on ICAME2018-SRM Institute of Science and Technology 22-24 March.
25. **Chief coordinator for Margdarshan scheme under AICTE, New Delhi.**
26. **Received Excellent Teacher ICON Award 2019, Uttar Pradesh Book of Records, Uttar Pradesh [www.upbr.in](http://www.upbr.in).**
27. Received **all India AICTE-CII award** for Department of Mechanical Engineering in 2020.
28. Best Researcher Award from Sri Sairam Management (2022).
29. Featured in Stanford's list of top 2% scientists in the world (2021-2024).

#### **Resource person in FDP/WORKSHOP**

1. Faculty development programme organized by Anna University-Chennai, 2010 on the topic "Design and development of Press Tools" at Design department, Anna University.
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 fibre-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.
7. Delivered topic on "Lean kitting assembly "in AICTE ATAL FDP on 30-8-2021 in SEC Chennai.
8. Delivered topic on " Twisted fibre composites " AICTE STTP on 19-9-2020 in SIT, Chennai.
9. Delivered topic on "documentation process for accreditation" on Margadarshan sponsored FDP on 26-12-2020 in SASTRA University.
10. Delivered topic on " Writing Vision, Mission and articulation of Bloom's taxonomy in AICTE-ISTE sponsored induction/refresher program on "innovative teaching & OBE", organized by Dhirajlal Gandhi

College of Technology, Salem on 7-2-2022.

11. Delivered topic on “**Digital manufacturing**” in Faculty Development Programme (FDP) on Applications of Artificial Intelligence in Digital Manufacturing”, in association with NIT-Warangal on 28-2-2022.

**Advisory committee member for INT. CONFERENCES IN INDIA AND ABROAD**

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 ICCET 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 Engineering-2020, SCSVMV, India.

**Editor in international / national journals:**

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

	<p>Publications Since 2013.</p> <ol style="list-style-type: none"> <li>3. International reviewer of International Journal of Modern Engineering, California State University, Northridge, Northridge, CA 91330</li> <li>4. International reviewer of The International Journal of Modern Engineering, California State University.</li> </ol> <p><b>Journal reviewer:</b></p> <ul style="list-style-type: none"> <li>- Journal of Materials Processing Technology</li> <li>-Journal of Polymer Testing.</li> <li>- Journal of Alloys and Compounds.</li> <li>-Journal of Materials Research and Technology.</li> <li>- Journal of Composite B.</li> <li>- Journal of Building Engineering.</li> <li>- Reviewer for the journal of Current Material Science.</li> <li>-Neural Computing and Applications</li> <li>-Mechanics of Advanced Composite Structures</li> <li>-Advanced Materials Letters</li> <li>-Journal of Materials Science</li> </ul> <p><b>Research supervisor:</b></p> <ol style="list-style-type: none"> <li>1. Anna University, Chennai.</li> <li>2. Vels University, Chennai.</li> <li>3. AMET University, Chennai .</li> <li>4. Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya University, Kanchipuram.</li> <li>5. St.PETER’S University, Chennai.</li> </ol>
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## 25. BOOKS WRITTEN

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 education	2010
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 - NIT 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 -Maharashtra Schowhan University, Mumbai