

BIO DATA

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1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
Ph.D.	Mechanical Engineering	Anna University, Chennai-25	2019
M.E.	Thermal Plant Engineering	Shanmugha College of Engineering / Bharathidasan University	1999
B.E.	Mechanical Engineering		1995

2. Professional/ Industry Experience

S.No	Designation	Institution/Organization	Period	
			From	To
1	Professor	Mechanical / KCE	20.06.2023	Till Date
2	Asso.Prof.	Mechanical / KCE	04.09.2013	20.06.2023
3	Asst. prof.	Mechanical / KCE	13.12.2007	04.09.2013
4	Lecturer	Mechanical / Mookambigai college of Engineering	01.07.2002	30.11.2007
5	Lecturer	Mechanical / Park College of Engineering and Technology	03.08.2000	29.06.2002
6	Engineer	Engineer / Prammen Industries, Pudukkottai - 622002	19.10.1998	10.07.2000

3. Research Interest

Thermal, Nano composites, Optimization

4. Publications

4.1. Journal Publications

1. P. P. Santharaman, E. Priya, R. Rajadurai, M. Vivekananthan & S. Balaganesh, "Performance Characteristics of Diesel Engine Using Biodiesel Blends", International Journal for Research in Applied Science & Engineering Technology, Volume 11, Sep'2023.
2. P.P.Santharaman, V. Anandakrishnan, S. Sathish, M. Ravichandran, R. Naveenkumar, S. Jayasathyakawin, & S. Rajesh, " Investigations on the microstructure and properties of yttria and silicon carbide reinforced aluminium composites", Heliyon, Volume 9, Issue 4, April 2023
3. P.P.Santharamana, V. Anandakrishnanb, S. Sathishc and M. Ravichandrand, "Spark erosion behaviour of SiC and Yitria ceramic particles reinforced aluminium hybrid nano-composites" Journal of Ceramic Processing Research, Vol. 23, No. 5, pp. 589-594 (2022)
4. M. Kumar, P.P. Shantharaman & N.Magesh, "Performance Characteristics of Diesel Engine using Different Biodiesel Blends" International Journal of Innovative Research in Science, Engineering and Technology, Volume 11, Issue 6, pp 8581-8589 June 2022
5. P.P.Santharaman, M.Melwin Jagadeesh Sridhar & S.Sabanayagam, "Mechanical Properties of Aluminium Metal Matrix Composites using Stir Casting Method", Journal of Huazhong University of Science and Technology, Volume50, issue 3, Page 10, 2021
6. P.P.Santharaman, G.Vijayan, Ramalingam Senthil & R. Karunakaran, "Thermal performance analysis of a low volume fraction Al_2O_3 and deionized water nanofluid on solar parabolic trough collector" Journal of Thermal Analysis and Calorimetry, 147, pages753–762 (2021).
7. P.P.Santharaman, M. Prabhakar, V. Anandakrishnan & S. Sathish, "Multi-objective Optimization of Cold Upsetting Parameters for Aluminium Metal Matrix Composites" Transactions of the Indian Institute of Metals volume 71, pages909–914 (2018)
8. Pushparaj, T, Shantharaman, P.P & John Panneer Selvam, D, 2017, "Effect of Blending Nano additive with Cashew Nut Shell Liquid Bio-oil on Performance, Combustion and Emission Characteristics of Four Stroke Diesel Engine – An Experimental Study", International Journal of Scientific Engineering and Research, vol.5, no.3, pp. 45-50.
9. P.P.Santharaman, T.Pushparaj & M.Prabhakar, "Performance And Emission Studies On Cashewnut Shell Liquid Bio-Oil Fuelled Diesel Engine With Acetone As Additive", Advances in Natural and Applied Sciences, Vol. 11, Issue 12, 2017

10. P.P.Santharaman, K.Balachander, "Performance and Characteristics of Biodiesel by Using Compression Ignition Engine", International Journal Of Core Engineering & Management, Volume 2, Issue 1, pp 228-235, 2015..
11. P.P.Santharaman, S.Nandakumar, "Fabrication of solar water distillation system", International Journal Of Core Engineering & Management , Volume 2, Issue 1, pp 179-186, 2015.
12. P.P.Santharaman, T.Pushparaj and K.Balachandar, "Effects of Ethanol Additive on Mahua Biodiesel in DI Diesel Engine", International Journal of Applied Engineering Research, vol.10, no. 50, pp. 387-391, 2015.
13. P.P.Santharaman & M Prabhakar, "Workability Behavior of Aluminium Hybrid Composites(P/M)", Advanced Materials Research Vols. 984-985 (2014) pp 390-401, 2014.

4.2. Conference Publications

1. International Conference on Engineering, Energy & Environment, 'Performance and Emission studies on Cashewnut Shell Liquid Bio-oil Fuelled Diesel Engine with Acetone as Additive' 31st March to 2nd April 2017.
2. First International Conference on Emerging Trends in Engineering, Technology and Science (ICETES-2016), ' Synthesis of Chicken Feather/Sisal Reinforced Polyester Hybrid Composite through Compression Molding Technique', 24th – 26th February, 2016.
3. First International Conference on "Multidisciplinary Research Approach for the Accomplishment of Academic Excellence in Higher and Technical Education Through Industrial Practices" Organized under ISTE, New Delhi By ISTE, Gujarat section at Pattaya, Bangkok-Thailand. 'Mechanical Properties of Aluminium Metal Matrix Composites Using Stir Casting Method' June 10-11, 2016.
4. International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-2014) 'Workability Behavior of Aluminium Hybrid Composites' at Ponjesly College of Engineering, Nagercoil on 7th & 8th March 2014

4.3 Books & Book Chapters Publications

1. Vijayan G, Shantharaman & Ashok Henry, Power Generation – Lightening the World, Fuels, Energy & Power Plants, LAP Lambert Academic Publishing, 120, High Road, East Finchley, London, N2 9ED, United Kingdom. ISBN:978-620-6-16205-6.
2. P.P.Santharaman, T.Pushparaj & M.Prabhakar, "Study on Performance And Emission Studies On Cashew nut Shell Liquid Bio-Oil Fuelled Diesel Engine With Acetone As Additive" New Ideas Concerning Science and Technology Vol. 10, 68-76, 2021
3. P.P.Santharaman & R.Shankar, "Power Plant Engineering", 2021, ISBN:9789354455711, Kings Publications.
4. P.P.Santharaman & T.Pushparaj, "Internal Combustion Engines", 2021, ISBN:9789354373404, Kings Publications.

5. Short term Courses / Seminars /FDP/Workshop/Conference Attended:

S.No	Title of the event	Organized by	Date	
			From	To
1	International Workshop on “Additive Manufacturing”	EGS Pillay Engineering College	28.09.18	--
2	Workshop on “ Siemens CoE in Manufacturing for South TN”	NIT, Trichy	20.02.16	--
3	Two day Workshop on “Research Methods and Tools”	AVC College of Engineering, Mannampandal-609305,	06.11.14	07.11.14
4	National seminar on “An Insight into Supercritical Technology”	Organized by IEI in NIT, Trichy.	06.07.13	07.07.14
5	ISTE Workshop on “Engineering Thermodynamics”	Sudarshan Engineering College, Sathiamangalam-622501	11.12.12	21.12.12
6	FDP in “ Finite Element Analysis and Solar Applications”	Kings College of Engineering	01.04.11	--
7	Short Term Course on “Laser Processing of Materials”	National Institute of Technology, Trichy.	06.03.08	07.03.08
8	STTP on “Recent Trends in Advanced Welding Technology”	Kings College of Engineering.	16.06.08	20.06.08
9	One day Workshop on “Finite Element Analysis”	Sudarshan Engineering College, Sathiamangalam-622501	24.03.07	--
10	Workshop on “Emerging Trends in Corrosion Control and Surface Engineering”	National Institute of Technology, Trichy.	09.02.07	10.02.07
11	FDP in “Engineering Graphics”	CSI College of Engineering, Ketti-643215.	21.06.06	22.06.06

12	FDP in “Engineering Thermodynamics”	IRTT, Erode.	02.03.05	07.03.05
13	FDP in “Heat and Mass Transfer”	Kongu Engineering College, Perundurai.	22.11.04	26.11.04
14	Staff Development Programme	Hindusthan College of Engg., Kelambakkam-603103.	01.12.03	11.12.03

6. Short term Courses / Seminars /FDP/Workshop/Conference organized:

S.No	Title of the event	Organized by	Date	
			From	To
1	Sir CV Raman’s Science Expo’22	Research & Development Section, Kings College of Engineering	28.02.22	--
2	National Webinar on “Advanced Materials for Engineers”	Research & Development Section, Kings College of Engineering	15.09.21	--
3	National Conference on Energy & Manufacturing Scenario - 2021	Department of Mechanical Engineering, Kings College of Engineering	31.03.21	--
4	National Science Day Contest	Research & Development Section, Kings College of Engineering	28.02.21	--
5	National Webinar on “Art of Writing Research Article”	Research & Development Section, Kings College of Engineering	20.02.21	--
6	National Webinar on “Patents and Trademarks”	Research & Development Section, Kings College of Engineering	19.01.21	--
7	A National Level Webinar on "Lead Cadmium Tin Alloys and its Mechanical and Corrosion Behaviours”	Research & Development Section, Kings College of Engineering	26.09.20	--

8	National level webinar on "Introduction on Industrial Revolution 4.0"	Research & Development Section, Kings College of Engineering	29.07.20	--
9	a National level webinar on "Application of Design Expert Software in Manufacturing Industry"	Research & Development Section, Kings College of Engineering	22.07.20	--
10	National level webinar on "Recent Trends in Automotives"	Dr.APJ Abdul Kalam Memorial Foundation, Kings College of Engineering	10.06.20	--
11	National level webinar on "Fundamentals of Product Design"	Research & Development Section, Kings College of Engineering	23.05.20	--
12	First National level webinar on "MACHINE TOOLS"	Department of Mechanical Engineering, Kings College of Engineering	21.05.20	--
13	webinar on "Role of Embedded Systems in Data Processing"	Research & Development Section, Kings College of Engineering	30.04.20	--
14	"Workshop on Welding Technologies"	Department of Mech. Engineering, Kings College of Engineering	07.02.20	--
15	Seminar on "Soft Skills"	Research & Development Section, Kings College of Engineering	24.01.20	--
16	"Einstein Expo – 2019"	Department of Mech. Engg., Kings College of Engineering	01.04.19	--
17	Seminar on "Industrial Automation"	Research & Development Section, Kings College of Engineering	02.01.19	--

18	Seminar on “Aero Engines and Air Frames”	Research & Development Section, Kings College of Engineering	28.09.18	--
19	National Conference on Energy & Manufacturing Scenario - 2015	Department of Mechanical Engineering, Kings College of Engineering	14.03.2015	--
20	STTP on “Recent Trends in Advanced Welding Technology”	Department of Mechanical Engineering, Kings College of Engineering	16.06.08	20.06.08

7. Online Courses

S.No	Course title	University	Date	
			From	To
1	Developing Activities for OBE Attributes	NITTTR, Chennai	07.02.22	11.02.22
2	An insight into Novel Research Aspects in Manufacturing Processes	SRM Institute of Science & Technology, Chennai	22.11.21	27.11.21

3	Trends in CNC Machining & Metrology	NITTTR, Chennai	04.10.21	08.10.21
4	Non Traditional Machining	NITTTR, Chennai	25.01.21	30.01.21
5	Fuel Cell Technology & its Research opportunities	NIT, Warangal	04.01.21	08.01.21
6	Energy Engineering	ATAL, Government College of Engineering, Thanjavur	21.12.20	25.12.20
7	Refresher course on Energy, Thermal and R&AC	NITTTR, Chennai	14.12.20	18.12.20
8	Robotics	ATAL, KCG College of Technology	8.12.20	12.12.20
9	3D Printing & Design	ATAL, KLN College of Engineering	30.11.20	04.12.20
10	“Green & Sustainable Energy Development”	NITTTR, Chennai	23.11.20	27.11.20

8. Membership in Professional societies

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| 1. ISTE | LM99444 |
| 2. SAE | 7210410122 |