

## **Dr A SENTHILKUMAR M.E.,PhD.,**

Assistant Professor

Department of Mechanical Engineering

University College of Engineering – Panruti

( A Contituent College of Anna Universty Chennai)

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### ➤ Educational Qualifications:

<b>Qualification</b>	<b>University/ Institution</b>	<b>Year of Passing</b>	<b>Percentage</b>	<b>Class</b>
<b>Ph.D.</b>	<b>NIT (National Institute of Technology) Tiruchirappalli</b>	<b>April 2010</b>	-	-
<b>M.E (Industrial Engineering)</b>	Bharathiar University/ Kumaraguru college of Technology	Dec 2002	79	First Class with Distinction
<b>B.E (Mechanical Engineering)</b>	Bharathiar University/ Kumaraguru college of Technology	April 1996	66	First Class
<b>XII</b>	M.S.P. Solai Nadar Higher Secondary School Dindigul	1991	79	First class
<b>X</b>	M.S.P. Solai Nadar Higher Secondary School Dindigul	1989	86	First class

➤ **Experience:**

<b>Name of Company / Institutions</b>	<b>Designation of Post</b>	<b>From</b>	<b>To</b>	<b>Relieved on</b>	<b>Scale of Pay</b>	<b>Experience in Year</b>
<b>University College of Engineering Panruti</b>	<b>Dean i/c / Assistant Professor</b>	<b>21.08.2009</b>	<b>Till date</b>		<b>15600-39100 AGP 6000</b>	<b>12Y 02M 10D</b>
M.A.M College of Engineering, Trichy	Professor	06.05.2009	20.08.2009	20.08.2009	12000-425-18300	3M 15D
Sethu Institute of Technology Madurai	Lecturer	21.06.2004	11.08.2006	11.08.2006	8000-275-13500	2Y 1M 21D
P.T.R College of Engineering and Technology, Madurai	Lecturer	10.12.2002	19.06.2004	19.06.2004	8000-275-13500	1Y 6M 10D

➤ **Awards:**

- **Special award for Supporting District Administration in Implementing Govt. Schemes by District Collector Cuddalore on 26 Jan 2017**
- **“ BEST ADMINISTRATION” Award by Rotary club Panruti**
- **Awarded Best Paper Award by International Innovation Scientific And Research Organization during 2013**

➤ **Additional / Academic Responsibilities at University:**

Sl. No.	Designation	Period	
		From	To
1	EDC Co ordinator	Aug 2019	Till Date
2	Member -Board of Studies	2016	2019
3	Warden	02.07.2014	30.09.2018
4	<b>Dean i/c</b>	02.07.2014	30.09.2018
5	<b>Head of the Dept i/c (ECE)</b>	13.07.2017	30.09.2018
6	<b>Head of the Dept i/c (Mech)</b>	17.09.2012	Nov 2015
7	<b>Executive Warden</b>	17.09.2012	01.07.2014
8	<b>Warden</b>	27.1.2011	12.09.2012
9	<b>Dean i/c</b>	27.1.2011	12.09.2012
10	<b>Deputy Warden</b>	Jan 2010	Jan 2011
11	NSS Programme Officer	Aug 2010	Aug 2013

1. Acted as Chief Superintendent in University Theory and Practical Examinations at Anna University of Technology Tiruchirappalli and Anna University Chennai
2. Affiliation Inspection Committee member – AUT-Tiruchirappalli & Anna University Chennai
3. Question paper setter for AUT, Coimbatore, A.C. Tech, Karaikudi, AUT Chennai, KCT, Sona College of Technology, Sathyabama University, Adhiyaman Engineering College, PSN College of Engineering, Kongu Engineering College, Pondicherry Engineering College
4. Member- Interview panel for faculty recruitment in various colleges
5. Acted as Anna University Representative for AUTT University Theory Examinations and Anna University
6. Member – Board of Studies of Mechanical Engineering department at Vel-Tech University, Chennai
7. Member - Result passing board at AUT Tiruchirappalli
8. Chair Squad Committee for University Examinations at AUTT Tiruchirappalli
9. Chief Invigilator for TNPSC Group IV examination held on 07.07.2012

10. Verification Officer (Nominee of DOTE) for price less laptop distribution at Muthiah Polytechnic College Chidambaram
11. UG/PG Project viva-voce examiner at Sathyabama University Chennai
12. Central Valuation Examiner at PEC, Pondicherry
13. Member, District level Single Window clearance committee, District Industries Centre Cuddalore
14. Member Inspection committee constituted by AU Chennai for monitoring PG programmes in Self Financing institutions
15. Selection committee member (DOTE Nominee) for the post of Principal ADJ Dharmambal Polytechnic College (Govt. Aided Institution) Nagapatinam
16. Governing council member ADJ Dharmambal Polytechnic College (Govt. Aided Institution) Nagapatinam
17. Member Board of Studies Electrical Engineering Faculty Anna University Chennai 2016-2019

➤ **Professional Activities:**

1. Teaching Methodology : Black Board, Power Point, Seminars , Assignments
2. Doctoral Committee member for various Ph.D. research scholars of Anna University
3. Acted as External examiners for various University Practical Examinations
4. Examiner for Central valuation
5. Reviewer for various International Journals
6. Guest editor in various Journals
7. Oral Examination board member for Ph.D. viva voce, Anna University

➤ **Membership of Scientific and Professional Societies:**

1. Life member in The Indian society for Technical Education – LM 37104
2. Life Member in Operational Research Society of India – 125/S/17/ML

➤ **Completed B.E/M.E Projects:**

1. Number of ME Projects Completed : 05 Nos
2. Number of BE Project Completed : 30 Nos

➤ **PhD Research Guidance (Completed):**

Sl. No	Name of Student & Register No./Category	Faculty	Date & time of Ph.D. Viva-Voce	Title of the thesis
1	Mr.K.Rajmohan Reg.no.20112012012(PT)	Mechanical Engineering	02-06-2017& 10.00 A.M	Studies on Effect of Wire EDM process parameters on Machining Characteristics of Sheet Metal Welding
2	Mr.S.Mahendran Reg.no. 2010S2012021(PT)	Mechanical Engineering	08-06-2017& 11.00 A.M	Implementation of Lean principles Through value Stream Mapping and Simulation analysis
3	Mr.S.Muthukumaran Reg.no.20112012009(PT)	Mechanical Engineering	23-07-2018& 10.00 A.M	Feasibility Studies on Magnetic Pulse Welding of Non Ferrous Materials employed in Automotive Applications
4	Mr.P.Chellapandi Reg.No. 2010S2012018(PT)	Mechanical Engineering	23-07-2018 & 02.00 P.M	Development of Boron Carbide based Aluminium Composite with Improved Tribological Property
5	Mr.S.Kannadasan Reg.No. 2010S2012019(PT)	Mechanical Engineering	13-12-2018 & 12.00 P.M	Modelling the Formability of various grade Aluminium Sheet Metals

➤ **PhD Research Guidance (Ongoing):**

S.No	Name	University	Date of Viva
1	M.Gunashankar, Chettinad College of Engg., & Tech., Karur.	Anna University	Course Work Completed

➤ **Consultancy Activities:**

Product identification for subsidy by govt of Tamilnadu through Tamilnadu Industrial Investment Corporation Cuddalore

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

1. “Training on Auto CAD” at CIT Coimbatore during October 1994.
2. FDP on “Total Quality Management” at Sri Ramakrishna Engineering College Coimbatore sponsored by CFD Anna University Chennai during 25-30 October 2004.
3. FDP on “ Application of Optimization Techniques in Industrial Engineering” at K. L. College of Engineering Warangal on 10 Dec 2005
4. AICTE-ISTE sponsored STTP on “Emerging Trends in CAD/CAM: Theory and Practice” during 20 - 31 December 2004 at National Institute of Technology, Tiruchirappalli.
5. AICTE-ISTE sponsored STTP on “Cleaner Technology for sustainable development” during 28<sup>th</sup> March to 8<sup>th</sup> April, 2005 at Amrita Viswavidhya peedam, Ettimadai, Coimbatore.
6. FDP on “Recent Trends in SCM” at NIT Trichy during 26-27 May 2006.
7. FDP on “Quality Engineering in Manufacturing” at NIT Trichy during 21-27 July 2006
8. Work shop on “Composite Materials” at NIT Trichy during 29-30 September 2006 under TEQIP community service.
9. Two day workshop on “LATEX” at NIT Trichy during 27-28 October 2006 under TEQIP community service.
10. Workshop on “Nano Materials Properties and Applications” at NIT Trichy during 2-3 Dec 2006 under TEQIP community service.
11. Two day workshop on “LASER Materials Processing” at NIT Trichy during 9-10 January 2007
12. FDP on “Recent advances in Environment, safety and Energy Management” at NIT Trichy during 5-9 February 2007
13. Visit to NIT Surathkal “Developing new laboratories at NITT” during 22-26 August 2007 under Institute Interaction Programme.

14. Workshop on “Experimental design in Manufacturing” at NIT Trichy on 19<sup>th</sup> January 2008 under TEQIP community service.
15. Work shop on “Metal forming and Powder Metallurgy” at NIT Trichy during 28-31 January 2008 under TEQIP community service.
16. Two day workshop on “Motivation for success” at NIT Trichy during 14-15 February 2008 under TEQIP community service.
17. MHRD – AICTE sponsored staff development programme on “ Advanced Tools and Techniques for Research in Engineering problems” at NIT Trichy during 25-29 February 2008
18. Two day workshop on “Applications of Information Technology Tools in Manufacturing” under TEQIP – community services during 11- 12 March 2008 at National Institute of Technology, Tiruchirappalli.
19. One day workshop on “XRD analysis and IPR” at Nit Trichy on 15<sup>th</sup> March 2008.
20. MHRD – AICTE sponsored staff development programme on “Fuzzy Logic: Theory and Engineering Practices” during 16 – 28 June 2008 at National Institute of Technology, Tiruchirappalli.
21. MHRD – AICTE sponsored summer school on “Emerging Industrial Applications of Laser” during 30<sup>th</sup> June – 12<sup>th</sup> July 2008 at National Institute of Technology, Tiruchirappalli.
22. AICTE sponsored short term course on “Recent Advances in Industrial Engineering” during 7 – 11 April 2008 at National Institute of Technology, Tiruchirappalli.
23. Two day workshop on “Finite Element Methods for Engineers” under TEQIP community services during 1 – 2 February 2007.
24. One day workshop on “What every Engineer should know about Telecommunication and Networking” on 3<sup>rd</sup> February 2007 at National Institute of Technology, Tiruchirappalli.
25. One day Programme on ”Meeting of Head of the Institutions” at NITTTRC, Chennai on 01.05.2012
26. One week FDP programme on “Web based Teaching Learning systems” at NITTTRC, Chennai 17-22 Dec 2012.

➤ **National Conferences Participated:**

1. Kannan G, Senthilkumar A, Saravanan N, and Chandrasekaran S, “An introduction to Fuzzy logic system”, National Conference on Recent Trends in CAD/CAM at JNTU, Kakinada, 2002, pp. 70-72.
2. Gunesekaran N, Kannan G, Athikesavan T, Senthilkumar A and, Rameshkumar raja T.T, “An introduction to Neural networks and its application”, National Conference On Recent Trends In CAD/CAM at JNTU, Kakinada, 2002, pp. 73-74.
3. Athikesavan T, Kannan G, Senthilkumar A and Boopathy K, “Simulation of a Manufacturing system-using Arena”, National Conference on Recent Trends In CAD/CAM at JNTU, Kakinada, 2002, pp. 75-77.
4. Kannan G, Noorul Haq A, Seenikannan P, Senthilkumar A, Thangadurai V and Ganesh Perumal N, “Improving quality of the manufacturing system using software quality management system”, 46th National convention of Indian Institution of Industrial Engineering on Quality Management in the 21st century”, on September 24th to 26th, 2004 organized by Indian Institution of Industrial Engineering Trivandrum chapter
5. Kannan G, Noorul Haq A, Senthil Kumar A, Ganesh perumal N and Ananth Babu K, “Nelder and Meads method based distribution inventory model for the supply chain model”, 37th convention of ORSI, held on 8th Jan to 11th Jan, 2005, at IIM, Ahmadabad, pp. 115.
6. Presented a paper “Analysis of lean manufacturing in supply chain management- Reference in a manufacturing industry” at National conference on Advancements in Mechanical, Environmental, safety and health Engineering at Knowledge institute of Technology, Salem on 9/5/ 2015.
7. Presented a paper “Wastage reduction by lean supply chain management in manufacturing industry” at National conference on Advancements in Mechanical, Environmental, safety and health Engineering at Knowledge institute of Technology, Salem on 9/5/ 2015.
8. Presented paper “Analysis of lean supply chain management” at National conference on Recent advances in manufacturing and materials at Chenduran college of Engineering and technology, Pudukkottai on 8 and 9th April 2011.



➤ **International Conferences Participated:**

1. Senthilkumar A, Jeyapaul R and Noorul Haq A, “Comparative evaluation of supply chain strategies” is presented in Fourth International Conference on Logistics and Supply Chain Management ILSCM 2008, 7-9 August 2008, PSG College of Technology, Coimbatore.
2. Senthilkumar A, Jeyapaul R and Noorul Haq A, “Analysis of Supply chain Strategies” is presented in Sixth International Conference on Supply Chain Management and Information Systems SCMIS 2008, 8-10 December 2008, National Institute of Technology, Tiruchirappalli.
3. Senthilkumar A, Jeyapaul R and Noorul Haq A, “Optimization and evaluation of supply chain designs” is presented in 2<sup>nd</sup> International & 23<sup>rd</sup> All India Manufacturing Technology, Design and Research Conference during December 15-17, 2008, Indian Institute of Technology Madras, Chennai.
4. Sarin Abraham, Ganesh K, Senthilkumar A and Yves Ducq “Impact on Climate Change due to Transportation Sector –Research Prospective”, International Conference on Modeling Optimization and Computing, Noorul Islam University, Nagercoil.
5. Vijay Chakravarthy G, Senthilkumar A, Rajeswari N, Kannan G, Rajesh T.R and Siva Kumar G, “Optimization of Travelling Salesman Problem by Kohonens approach using ANN”, International Conference held at CIT, Coimbatore on 5th January 2004.
6. Kannan G, Senthilkumar A and Gunesakaran N, “Process control of a Manufacturing industry- using Neuro-Fuzzy approach”, International conference on Digital Aided Modeling and Simulation, Coimbatore Institute of Technology, Coimbatore, January 608, 2003, paper No.113.
7. Presented a paper “Analysis of lean supply chain management” at International conference on advances in Engineering and Technology at EGS Pillay Engineering College, Nagapattinam on 28 and 29/3/2012.
8. “Implementing lean manufacturing principle in an automobile valve manufacturing industry-a case study” on ICMMS 2016 (International Conference on Mechanical, Materials and Manufacturing systems) held at Sairam Engineering College, Chennai-44 on 24 and 25/2/2016.
9. “Numerical Simulation of Friction Stir Welding of Al-7075” in the “International Conference on Emerging Trends in Mechanical & Industrial Engineering (ICETMIE-2017)”, held at

Department of Mechanical Engineering , The NorthCap University, Gurugram from 13.10.2017 to 14.10.2017

10. “ A study on the obstacles of Solar Power Development in India” in the “International Conference on Engineering Materials and Renewable Energy” , held at Department of Chemistry , University College of Engineering Villupuram , Villupuram , from 04.01.2018 to 05.01.2018
11. “Applying lean manufacturing principle in an automobile industry- value stream mapping analysis” at International conference on contemporary design and analysis of manufacturing and industrial engineering systems conducted by National Institute of Technology, Trichirappalli on 18/01/2018.
12. “Lean manufacturing principle applications in manufacturing industry- value stream mapping tool” at International conference on advances in industrial engineering applications conducted by College of Engineering, guindy, Anna university Chennai on 04/01/2018.

➤ **Publications :**

**a. Books:**

1. Co – Authored a Book entitled “ Power Plant Engineering” , published through Sri Krishna Hitech Publishing Company Pvt.Ltd , Plot No.14 , Lakshmi Kanthammal 1<sup>st</sup> Street, Rajiv Nagar, Vanagaram , Chennai – 600 077 , Tamilnadu , with ISBN : 978-93- 86590-29-9
2. Co – Authored a Book entitled “ Engineering Graphics ” , published through Sri Krishna Hitech Publishing Company Pvt.Ltd , Plot No.14 , Lakshmi Kanthammal 1<sup>st</sup> Street, Rajiv Nagar, Vanagaram , Chennai – 600 077 , Tamilnadu , with ISBN : 978-81-908908-7-8

**b. International Journals:**

1. Senthilkumar A, Jeyapaul R and Noorul Haq A, “Comparative evaluation of supply chain strategies using Simulation Modeling and Grey Relational Analysis”, International Journal Logistics and Supply Chain Management, Vol. 1, No. 1, January – June 2009, pp. 51-60.

2. Senthilkumar A, Jeyapaul R and Noorul Haq A, “Evaluation of supply chain using Desirability Function Analysis and ANOVA”, International Journal of Logistics and Supply Chain Management, Vol. 1, No. 1, January – June 2009, pp. 67-75.
3. Senthilkumar A, Jeyapaul R and Noorul Haq A, “Analysing the Performance of Supply chain Designs”, International Journal of Business Performance Management, Vol. 11, No.1/2, 2009, pp. 72-95.
4. Kannan G, Grigore M.C, Devika K and Senthilkumar A, “ An Analysis of the general benefits of a centralized VMI system based on the EOQ model”, International Journal of Production Research, 2012, iFirst, pp. 1-17.
5. S.Muthukumaran , S.Kudiyarasan , S.Arungalai Vendan and A.Senthilkumar , “ Investigations on Dissimilar Welded Joints by Magnetic Pulse Method” , International Journal of Vehicle Structures and Systems,2014,Vol.6,No.4,pp.120 – 123.
6. Senthilkumar A, Rajmohan K, “ A review on the effects of process parameters of Wire electrical discharge machining on the surface integrity of various materials” , International Journal of Applied Engineering Research,2015, Vol. 10 No.50.
7. Rajmohan K, Senthilkumar A, “ Experimental investigation and prediction of optimum process parameters of micro wire – cut- EDM of 2205 DSS”, International Journal of Advanced Manufacturing Technology, 2016, Vol. 83, Nos. 5 – 8.
8. Mahendran S, Dr.Senthilkumar A, Dr.Jeyapaul R, “Lean manufacturing in a manufacturing industry through value stream mapping and simulation study”, International Journal of Advanced Engineering Technology, 2016, Vol.7, No.1.
9. Muthukumaran S, Senthilkumar A, Arungalai vendan S, Kudiyarasan S, “Experimental and numerical simulation of magnetic pulses for joining of dissimilar materials with dissimilar geometry using electromagnetic welding process “,International Journal of Applied Electromagnetics and Mechanics,2017,Vol.53, No.2.
10. Senthilkumar A, K. Rajmohan , ‘Appraisal of Material Removal Rate and Kerf width of 2205 Duplex Stainless Steel in Micro wire – cut EDM process through Response Surface Methodology , Journal of the Balkan Tribological Association ,Book 1,Vol.23, pp.56-66 ( 2017).

11. Chellapandi P , Senthil Kumar A , Arungalai Vendan S , ‘Experimental investigations on aluminum based metal matrix composites with B<sub>4</sub>C, SiC and Mg’, Carbon – Sci. Tech. 7/1(2015)59-68.
12. Chellapandi P , Senthil Kumar A, Arungalai Vendan S, ‘Experimental investigations on mechanical, micro-structural and tribological behavior of b<sub>4</sub>c, sic and mg reinforced aluminum metal matrix composites’, International Journal of Advanced Engineering Technology, Vol. VII/Issue II/April-June,2016/754-756.
13. S. Kannadasan , A. Senthil Kumar , C. Pandivelan and C. Sathiya Narayanan, ‘Modeling the Forming Limit Diagram for Aluminium Alloy Sheets using ANN and ANFIS’, Applied Mathematics & Information Sciences, 11, No. 5, 1435-1442 (2017).
14. Mahendran, S & Senthil Kumar, A 2012, ‘Reducing the wastage in supply chain management using lean principle’ published in CIIT International Journal of Automation and Autonomous System, vol 4, no. 7.
15. Mahendran, S, Senthil Kumar, A & Loganathan, p 2015, ‘Analysis of Lean manufacturing in Supply Chain Management- Reference in a Manufacturing industry’ published in ‘International Journal of Applied Engineering Research’, ISSN 0973-4562, vol. 10 ,no.50, pp. 874-878.
16. Mahendran, S, Senthil Kumar, A & Loganathan, p 2015, ‘Wastage reduction by lean supply chain management in manufacturing industry’ published in ‘International Journal of Applied Engineering Research’, ISSN 0973-4562, vol. 10, no. 50, pp. 796-801.
17. Mahendran, S, Senthil Kumar, A & Jeyapaul, R 2018, ‘Analysis of lean manufacturing in an automobile industry- a case study’ accepted in ‘International Journal of Enterprise network management”. Vol. 9, No.2, pp 129-142.

➤ **SPONSORED PROGRAMS**

1. Capacity Building for Industrial Needs for final year Engineering students of Cuddalore district sponsored by Tamilnadu State council for Science & Technology 23-25 July 2014 and 6-8 August 2014
2. Entrepreneurship Development Programme sponsored by EDI Chennai 18-20 Nov 2014  
Entrepreneurship Awareness Programme sponsored by ICTACT Chennai Phase I 09.02.105  
Phase II 16-20 Feb 2015

➤ **AU CFD FDTP PROGRAMMS ORGANIZED**

1. AU-CFD sponsored FDP on “ME2251 Heat and Mass Transfer” during 16-22 December 2013
2. AU-CFD sponsored FDP on “ Finite Element Analysis” during December 2014
3. AU-CFD sponsored FDP on “ Finite Element Analysis” during December 2014

➤ **PROGRAMMES ORGANIZED**

1. Inaugural function of Mechanical Engineering Association at University College of Engineering Panruti on 11.10.2010
2. Annual Day function at University College of Engineering Panruti on 21.02.2011
3. Annual NSS Special camp at Andikuppam village during 21-27 February 2011
4. Women’s Day at University College of Engineering Panruti on 08.03.2011
5. Blood Donation camps – more than 5 camps
6. Annual NSS Special camp at Andikuppam village during 12-18 March 2012
7. Annual Day function at University College of Engineering Panruti on 22.03.2012
8. “Distribution of Priceless Laptops to the students” on 24.03.2012
9. Annual Day & Sports Day 2017 (16&17 March 2017)