



RESUME

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5. Academic Qualification

Degree	Specialization	University	Class & % Marks	Year of Completion
B.E	MECHANICAL ENGINEERING	ANNAMALAI UNIVERSITY	I class & 70%	APRIL, 1986
M.E	PRODUCTION ENGINEERING	ANNAMALAI UNIVERSITY	I class & 72%	JUNE, 1988
Ph.D	MANUFACTURING ENGINEERING	ANNAMALAI UNIVERSITY	-----	AUGUST, 2003

6. Professional Experience

S. No.	Institute/Organisation	Post Held	Duration
1.	S.K. Crescent Engineering College, Chennai	Lecturer in Mechanical Engineering Department	18.06.1987 – 16.07.1988
2.	Indian Institute of Technology, Chennai	Research Scholar in Metal Forming Laboratory	03.08.1988 – 16.09.1991
3.	Pondicherry Engineering College, Pondicherry	Lecturer in Department of Mechanical Engineering	18.09.1991 – 20.08.1995
4.	Pondicherry Engineering College, Pondicherry	Workshop Superintendent in the Department of Mechanical Engineering	20.08.1995 – 29.05.1999
5.	Pondicherry Engineering College, Pondicherry	Assistant Professor in the Department of Mechanical Engineering	30.06.1999 - 27.02.2006
6	Pondicherry Engineering College, Pondicherry	Working as a Professor in the Department of Mechanical Engineering	28.02.2006 - Till Date
7	Pondicherry Engineering College, Pondicherry	Head of the Department of Mechanical Engineering	03.09.2009- 25.09.2012

FIELD OF SPECIALIZATION: MANUFACTURING ENGINEERING

RESEARCH AREA

- **METAL FORMING**
- **MACHNING OF NEWER MATERIALS**
- **FABRICATION AND CHARACTERIZATION OF COMPOSITE MATERIALS**

LIST OF PUBLICATIONS

INTERNATIONAL JOURNAL

- 1 V. Subramaniya Sarma, T. Senthil Velan and P. Venugopal, “On the Warm Solid and Hollow Extrusion of Sintered Powder Metallurgical Copper Preforms – Some Studies”, *Journal of Materials Processing Technology*, Vol:70, 1997, pp.163-169(Elsevier Publication), ISSN: 0924-0136 , Impact Factor: 3.147
- 2 T. Senthil Velan, A. Venkatraman and K. Raghukandan, “Evaluation of Formability Properties of P/M Copper Preforms at Elevated Temperatures”, *Key Engineering Materials*, Vol. 183-187, 2000, pp.1273-1278.(Trans Tech Publication)
- 3 T. Senthil Velan, A. Venkatraman and K. Raghukandan, “A Study on Deformation Energy of P/M Copper and Ingot Material”, *Key Engineering Materials*, Vol.183-187, 2000, pp.205-210. .(Trans Tech Publication)
- 4 A. Venkatraman and T. Senthil Velan, “Design and Fabrication of Tooling for P/M Ferrous Gears”, *Key Engineering Materials*, Vol.183-187, 2000, pp.1285-1290. .(Trans Tech Publication)
- 5 T. Senthil Velan, K. Raghukandan and A. Venkatraman, “Testing and Quality Standards for Powder Metellurgy Products” *Materials and Manufacturing Processes*, Vol.18, No.1, 2003, pp.105-112.(Marcel& Dekker Publication), ISSN: 1042-6914, Impact Factor :1.63
- 6 T. Senthil Velan, K. Raghukandan and A. Venkatraman, “Tooling Design and Compaction Analysis on P/M Copper Bushes”, *Materials and Manufacturing Processes*, Vol.18, No.1, 2003, pp.113-122. .(Marcel & Dekker Publication), ISSN: 1042-6914, Impact Factor :1.63
- 7 T. Senthil Velan, K. Raghukandan and A. Venkatraman, “Development of Nomogram for Prediction of Extrusion Stress for P/M Copper Preforms at Warm Working Temperatures”, *Journal of Materials Processing Technology*, Vol.138, No.1-3, 2003 pp. 28-33. (Elsevier Publication), ISSN: 0924-0136, Impact Factor: 3.147
- 8 T. Senthil Velan, K. Raghukandan and A. Venkatraman, “Modelling of Process Parameters on the Working of P/M Copper Preforms”, *Journal of Materials Processing Technology*, Vol.142, No.3, 2003, pp. 767-772. (Elsevier Publication), ISSN: 0924-0136, Impact Factor: 3.147

- 9 J.M.Ganesan, K.Raghukandan and T.Senthil Velan, "Modelling of Process Parameters in P/M Copper Extrusion for Solid Preforms", *Materials Science forum*, Vols.437-438, 2003, pp.383-386(Trans Tech Publication)
- 10 P.Manikandan, K.Raghukandan and T.Senthil Velan, "Effect of Compaction Parameters On the Properties of P/M Aluminium Preforms" *Materials Science forum*, Vols.437-438, 2003, pp.439-442. .(Trans Tech Publication
- 11 K. Raghukandan and T. Senthil Velan, "Analysis of P/M Hollow Extrusion Using Design of Experiments", *Journal of Materials Processing Technology*, Vol.152-154C,2004, pp.416-419. (Elsevier Publication), ISSN: 0924-0136, Impact Factor: 3.147
- 12 T. Senthil Velan, K. Raghukandan and A. Venkatraman, "Estimation of Extrusion Stress for Sintered P/M Preforms-Nomogram Approach" *Journal of Materials Processing Technology*, Vol.152-154C,2004, pp.420-423. (Elsevier Publication), ISSN: 0924-0136, Impact Factor: 3.147
- 13 K.Mahadevan, K.Raghukandan, T.Senthilvelan, B.C.Pai and U.T.S.Pillai, "Studies on the Effect of Delayed Aging on the Mechanical Behaviour of AA 6061 SiCp Composite", *Material Science and Engineering A*, Vol 396, 2005, pp.188-193. (Elsevier Publication), ISSN: 0921-5093, Impact Factor: 2.590
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- 16 G. Mahendran, V. Balasubramanian and T. Senthilvelan, "Developing diffusion bonding windows for joining AZ31B magnesium - AA2024 aluminium alloys", *Materials and Design*, Vol.30, 2009, pp.1240-1244 (Elsevier Publication), ISSN: 0261-3069, Impact Factor:4.364.
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- 18 S. Ranganathan and T. Senthilvelan, "Behavior of Machining Parameters in Hard Turning of 316 Stainless Steel", *International Journal for Manufacturing Science & Production*, Vol.10, No.2, 2009, pp.137-145. (Freund Publication), ISSN: 0793- 6648.
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- 20 B.Ramesh and T. Senthilvelan, " Formability Characteristics of Aluminium Based Composites-A Review" , *International Journal of Engineering and Technology*, Vol.2 No.1, February 2010, pp.1-6.ISSN1793-8236 (IACSIT

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- 22 B.Ramesh and T. Senthilvelan, “On the Workability Analysis of Aluminium based Composites and Aluminium Alloys using Design of Experiments”, Journal of Advanced Research in Mechanical Engineering, Vol.1 No.4, 2010, pp. 232-238(Hyper Sciences Publication),ISSN: 17379318
- 23 S. Ranganathan, T.Senthilvelan and G.Sriram, “Evaluation of Surface roughness of hot turning of stainless steel (type 316) by applying ANN and RSM”, Journal of Materials and Manufacturing Process, vol.25, 2010, pp.1131-1141(Taylor & Francis Publication), ISSN 1042-6914, Impact Factor :1.63
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- 37 M.Vetrivel and T. Senthilvelan, “Investigation of Isothermal Formability Behavior by Experimental and Numerical Studies on Commercially Pure Titanium (CP-Ti)” *Archives Des Sciences*, Vol 65, No. 12;Dec 2012,pp.537-550, ISSN 1661-464X
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- 39 K.L. Jeyaraj, C. Muralidharan, T. Senthilvelan, S.G. Deshmukh, “ Application of SWOT and Principal Component Analysis in a Textile Company - A Case Study” *International Journal of Engineering Research and Development*, Volume 1, Issue 9 (June 2012), PP.46-54, ISSN: 2278-067X
- 40 K.L. Jeyaraj, C. Muralidharan, T. Senthilvelan and S.G. Deshmukh, “A Hybrid Business Strategy Selection Process for a Textile Company Using SWOT and Fuzzy- ANP–A Case Study” *International Journal of Management*, Volume 3, Issue 2, May- August (2012), pp. 124-143, ISSN 0976 – 6367
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- 45 T Senthilvelan1,, S Gopalakannan1,, S Vishnuvarthan, and K Keerthivaran, "Fabrication and Characterization of SiC, Al₂O₃ and B₄C Reinforced Al-Zn-Mg-Cu Alloy (AA 7075) Metal Matrix Composites: A Study" Advanced Materials Research Vols. 622-623, 2013, pp 1295-1299, Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMR.622-623.1295
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- 49 K.L. Jeyaraj, C. Muralidharan, T. Senthilvelan and S.G. Deshmukh, "Development of Artificial Neural Network and Non Linear Regression Model of Color Fast Finish Process – A Textile Case Study" , European Journal of Scientific Research ISSN 1450-216X / 1450-202X , Vol. 102 No 1 May, 2013, pp.94-111
- 50 A.Mariajayaprakash, T.Senthilvelan and K.P Vivekanandan, "Optimisation of shock absorber processparameters using failure mode and effect analysis and genetic algorithm" Journal of Industrial Engineering International, 2013, 9:18, pp 1-10 (Springer Open journal)
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- 53 N Sozhan, T Senthilvelan, T Kaliyappan, E Vijayakrishna Rapaka and S.P.Sivapirakasam, "Experimental Investigations on a 1.00 m² Solar Gel Pond" Applied Mechanics and Materials, Vols. 592-594 (2014,) pp 2360-2364, Trans

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NATIONAL JOURNAL

- 1 G. Mahendran, V. Balasubramanian, T.Senthilvelan and A.K.Lakshiminarayanan, “Developing empirical relationships to predict diffusion layer thickness, hardness and strength of Al-Cu dissimilar joints”, *Indian Welding Journal*, July,2008,Vol.41, No.3, pp.37-45, (Indian Institute of Welding Publication), ISSN: 0046-9092
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- 4 A. Murugan1, T. Senthilvelan and V. Balasubramanian, “Development Of Empirical Relationships To PredictStrength of P/M Sintered Pure Copper And Pure Nickel Diffusion Bonded Bimetallic Joints” *Manufacturing Technology Today*, February 2015, pp.11-19

INTERNATIONAL CONFERENCES

- 1 T. Senthilvelan and T.V. Balasubramanian, “Evaluation of Deformation Characteristics of Thin Metallic and Non-Metallic Foils Using a New Bulge Tester”, *Proceedings of International Conference of AMPT '93* (Ed: Prof. M.S.J. Hashmi), held during 24-27 August '93 at Dublin City University, Dublin, Ireland, pp.699-706.
2. T. Senthil Velan, K. Raghukandan and A. Venkatraman, “Effect of Interfacial Friction on the Working of P/M Copper Preforms”, *Proceedings of International Confernece on Manufacturing* (Ed: Dr.Mahiuddin Ahmed), held at BUET, Dhaka, Bhangladesh, during 24-26, February, 2000, pp.358-363.
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- 6 S.Rajagopan, T.Kaliyappan, N.Sozhan, E.Vijayakrishna Rapaka, and T.Senthilvelan, “Experimental Studies On Model Solar Gel Ponds In Puducherry Region”, *Proceedings of 15 th ISME International Conference Conference on New Horizon of Mechanical Engineering, Rajiv Gandhi Technological University, Bhopal, March 18-20,2008*, pp.228-234.
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 - 16 S. Gopalakannan, T. Senthilvelan, and K. Kalaichelvan, "Electric Discharge Machining Of Al 7075/10%SiC Metal Matrix Composite By Applying Response surface Method" *Proceedings of International Conference on Advances in Mechanical and Building Sciences* at VIT, Vellore, 2012, Jan 9-11, 2012, pp 8-14
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 - 20 L.Saravanan , T. Senthilvelan, " Effect of Interfacial Friction On The Formability of Aluminium 7075 Alloy" 3rd International Conference On Recent Advances in Material Processing Technology (RAMPT'13), National Engineering College, Kovilpatti, Tamilnadu, India, pp.1-7, 07-09, January 2013
 - 21 P. Balasubramanian and T.Senthilvelan, "Development of Mathematical Model Applied to EDM Process Using Response Surface Methodology" IEEE - International Conference on Research and Development Prospectus on Engineering and Technology (ICRDPET 2013) March 29-,30 - 2013 Vol.1, ISBN: 978-1-4673-4948-2 © 2013 IEEE, pp. 243-249, E.G.S. Pillay Engineering College, Nagappattinam
 - 22 S.Gopalakannan, T.Senthilvelan and U.Mohammed Iqbal, "Study of Dry Sliding Wear Behaviour of Al/B₄C Metal matrix Nano Composites By Applying Response surface Methodology" Proc.of the Second International Conference on Intelligent Robotics, Automation and Manufacturing (IRAM), 16-18, Dec 2013, IIT,Indore, pp.193-198
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- 24 A. Muruganan, T. Senthilvelan and V. Balasubramanian, “Effect of Diffusion Bonding Process Parameters on Mechanical and Metallurgical Characteristics of Dissimilar Joints on P/M Components” Proc. of International Institute of Welding – International Welding Congress 2014 (IC 2014), April 9-11, 2014, New Delhi, pp 426-431
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 - 26 K.Gokulnadhan, T.Senthilvelan, A.Subramaniya and R.Badrinath, “Influence of TiC Content on the Microstructure, hardness and Wear Behaviour of Ti/TiCComposites”, Proc.of. Int.Colloquium on Materials, Manufacturing and Metrology, Aug8-9, 2014, IIT Madras (paper I.D No.1288)
 - 27 R.Badrinath, T.Senthilvelan and K.Gokulnadhan “Characterization of Natural Fibers Reinforced Polymer matrix Composites” Proc.of. Int.Colloquium on Materials, Manufacturing and Metrology, Aug8-9, 2014, IIT Madras (paper I.D No.1339)
 - 28 S.Pradeep Devaneyan, T. Senthilvelan, “Parametric Optimization of Electro Co-Deposition Process of SiC Paticles Reinforced Nickel Metal Matrix Composite Coatings on Aluminium 7075” Proceedings of the International Conference on Materials, Design and Manufacturing Process(ICMDM), February 17-19, 2016, Anna University, Chennai, pp.179-185. (Paper No.4747)
 - 29 S.Pradeep Devaneyan, T. Senthilvelan, I.Sheeba and A. Sivakumar, “Optimizing the Parameters of Microcontroller based Electro codeposition process Using Genetic Algorithm” TEQIP-II sponsored International Conference on Distributed Intelligent Computing, 9th March 2016, Departments of Computer Science and Engineering & Information Technology Pondicherry Engineering College, Pondicherry,pp. 685-693.
 - 30 A.Murugan and T. Senthilvelan, “ Behaviour of Diffusion Bonding Bi- Metallic Joints of Cu-Ni Produced by P/M Route” Proceedings of the International Conference on Materials, Design and Manufacturing Process(ICMDM), February 17-19, 2016, Anna University, Chennai, pp.69-73 (Paper No.4656)
 - 31 A. Murugan1, T. Senthilvelan and V. Balasubramanian, “Influence of bonding Time on the Mechanical and Metallurgical Characteristics of Powder Metallurgically Produced Pure Aluminium and Pure Copper Diffusion Bonded Bi- Metallic Joints” Proceedings of the International Conference on Advances in Design and manufacturing (ICAD& M’14), NIT, Trichirappalli, December 5-7 , 2014, pp.841-84721
 - 32 S.Pradeep Devaneyan, T. Senthilvelan, “Effect of Process Parameters on the Co-Deposited Ni-SiC Particle Reinforced Metal Matrix Composite (MMC) Coatings By Electroplating, Proceedings of the International Conference on Advances in Design and manufacturing (ICAD& M’14), NIT, Trichirappalli, December 5-7 , 2014, pp.940-946.

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- 34 D.AmrishRaj and T. Senthilvelan, "Influence of nano zirconia and PTFE on Short Beam Shear Strength of ABS Hybrid Composites" International Conference on Composite Materials and Structures- ICCMS 2017, IIT, Hyderabad, 27-29th December 2017

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6. A. Venkatraman and T. Senthil Velan, "Effect of Hardness on the Damping Property of High Carbon and High Chromium Steel", *Proceedings of National Conference on Recent Advances in Experimental Mechanics*, IIT, Kanpur, 15-16. March, 2000. pp.187-194.
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- 8 Auro Ashish Saha and T. Senthil Velan, "Control of Thermal Power Plant Emissions – A Technological Review", *Proceedings of National Conference on Advanced Trends in Mechanical Engineering Research and Development*, 18th October, 2001, JNTU College of Engineering, Ananthapur, pp.75-81.
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- 10 A. Venkatraman ,K. Raghukandan and T. Senthil Velan “Wear Studies On the P/M Ferrous Gears”, *Proceedings of the 17th National Convention of Production Engineers Trends in Design and Manufacture of Gears and Bearings*, Aug 31 and Sept1,2002, IIT Chennai, pp.65-70.
 - 11 K.Mahadevan, K.Raghukandan, T.Senthilvelan, B.C.Pai and U.T.S.Pillai, “Effect of Aging Parameters and Volume Fraction on the Hardness of SiC_p Reinforced 6061 Aluminium Matrix Composites” *Proceedings of the First National Conference on Developments and Challenges in Manufacturing Engineering-2004*”, Dept. of. Mech& Ind. Production Engg., MIT, Manipal,India.
 - 12 N. Vijay and T. Senthilvelan,” Analysis of Cold Forging of Sintered Powder Preforms Using Finite Element Method” *Proceedings of 21 AIMTDR Conference, Vellore Institute of Technology (VIT) during 20-23, December, 2004*, pp.595-589.
 - 13 K. Mahadevan, K.Raghukandan, T.Senthilvelan, B.C.Pai and U.T.S.Pillai,” Some Studies on the Machining Aspects of Al/ SiC_p Composites” *Proceedings of 21 AIMTDR Conference, Vellore Institute of Technology (VIT) during 20-23, December,2004*, pp.15-19.
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 - 17 S.Rajagopan,, E.Vijayakrishna Rapaka, N.Sozhan, T.Kaliyappan, and T.Senthilvelan, “Fabrication and Experimental Invesatigations On a 0.25 m² Solar Gel Pond”, *Proceedings of the National Conference & Exhibition on Demand Side Management Options for EnergySustainability, Pondicherry Engineering College, Pondicherry*, 25thOctober 2007, pp.16-19
 - 18 D.AmrishRaj and T Senthilvelan, “ Finite Element Analysis of Sliding wear Behaviour of Copper-Graphite Composites”, *Proceddings of First National Conference on Corrosion, Surface Engineering & Tribology (CST-2013)*, April 22- 23, 2013 , Centre of Excellence in Corrosion & Surface Engineering (CECASE), NIT, Trichirappalli
 - 19 A. MuruganI, T. Senthilvelan and V. Balasubramanian, “Developing Diffusion Bonding Windows for Joining Powder Metallurgically Produced Pure Aluminium and Pure Copper”, *Proc. of TEQIP Sponsored National Seminar Recent Trends in Welding Technology and Non-Destructive Testing* 20th and 21st September, 2013, pp.1-11, Coimbatore Institute of Technology, Coimbatore

FOREIGN ASSIGNMENT: Deputed to **Asian Institute of Technology(AIT) BANGKOK, Thailand** as Visiting Professor during Jan-May, 2010 in the Offshore Technology and Management center under the Secondment Faculty Scheme, MHRD, Government of India

COUNTRIES VISITED

- **City Polytechnic, Hong Kong** to present a paper in the Ninth International Manufacturing Conference in China (IMCC'2000), 16-17 August 2000, **Hong Kong**
- **Pohang University of Science and Technology (POSTECH)**, to present a paper in the Fourth International Conference on Fracture and strength of Solids, (FEOFS), 16-18 August 2000, **Pohang, Korea.**
- **Dublin City University (DCU)**, to present two papers in International Conference on Advanced Materials Processing & Technologies AMPT – 2003) 8-11 July 2003, **Dublin, Ireland**
- Selected by MHRD, Govt. of India and participated in the “**LEADERSHIP FOR ACADEMICIANS PROGRAMME**” Organized by **Indian Institute of Science Education and Research Kolkata** from 11-22 February 2019 at **Kolkata** and 6-10 March 2019 at **Harvard University, USA.**

DETAILS OF Ph.D GUIDANCE

As Guide

Completed : 14 On Going: 3

As Co-Guide

Completed : 4

Details of Ph.D Completed

As Guide

- 1 **S.RANGANATHAN, “MACHINING CHARACTERISTICS OF HOT TURNING PROCESS IN AISI 316 STAINLESS STEEL”** 30, June, 2011, Sri Chandrasekharendra Saraswathi Mahavidyalaya, (Deemed University), Kanchipuram

- 2 **B.RAMESH, “WORKABILITY ANALYSIS ON ALUMINIUM BASED COMPOSITES AND ALUMINIUM ALLOYS”, 17,May,2012, Pondicherry University**
- 3 **S.GOPALAKANNAN, “INVESTIGATIONS ON THE ELECTRIC DISCHARGE MACHINING OF ALUMINIUM METAL MATRIX COMPOSITES AND ALUMINIUM METAL MATRIX NANO COMPOSITES” 02,May,2013, Pondicherry University**
- 4 **M.VETRIVEL, “INVESTIGATION ON ISOTHERMAL COMPRESSIVE FORMING OF COMMERCIAL PURE TITANIUM” 13, May,2013, Sri Chandrasekharendra Saraswathi Mahavidyalaya,(Deemed University), Kanchipuram**
- 5 **A.MARIAJAYAPRAKASH, “OPTIMIZATION OF PROCESS PARAMETERS USING FAILURE MODE AND EFFECT ANALYSIS AND TAGUCHI METHOD” 25,October,2013, Pondicherry University**
- 6 **N.SOZHAN, “PARAMETRIC OPTIMIZATION IN SOLAR GEL POND” 31, July,2015, Pondicherry University**
- 7 **P.BALASUBRAMANIAN, “COMPARATIVE STUDIES ON ELECTRICAL DISCHARGE MACHINING PARAMETERS-POWDER METALLURGICAL ELECTRODES WITH CONVENTIONAL ELECTRODES”01,October,2015 Pondicherry University**
- 8 **S.PRADEEP DEVANEYAN “WEAR BEHAVIOUR OF CO DEPOSITED NICKEL AND ALUMINIUM 7075 WITH MICRON AND NANO SIZED SiC METAL MATRIX COMPOSITE COATINGS” 16 October,2015, Pondicherry University**
- 9 **K.VENKATESH “INFLUENCE OF ECO FRIENDLY COOLING TECHNIQUES ON THE MACHINING OF TOOL STEELS IN HARD TURNING PROCESS, 08,January, 2016, Sri Chandrasekharendra Saraswathi Mahavidyalaya,(Deemed University), Kanchipuram**
- 10 **A.MURUGAN, “DEVELOPMENT OF DIFFUSION BONDING WINDOWS FOR POWDER METALLURGICALLY PRODUCED BIMETALLIC JOINTS” 01, March,2016, Pondicherry University**
- 11 **L.SARAVANAN, “INVESTIGATION ON THE HOT WORKABILITY CHARACTERISTICS AND DEFORMATION MECHANISMS OF ALUMINIUM ALLOY AND NANO COMPOSITES” 15th, March,2018 ,Pondicherry University**
- 12 **B.MAGAMAI RADJ, “MECHANICAL AND METALLURGICAL BEHAVIOUR OF ALUMINIUM AND MAGNESIUM ALLOYS IN FRICTION STIR WELDING” 06th July 2018, Pondicherry University**

- 13 **D.AMRISHRAJ, “MECHANICAL AND TRIBOLOGICAL BEHAVIOUR OF ABS COMPOSITES REINFORCED WITH NANO ZIRCONIA AND PTFE”, 29th July, 2019, Pondicherry University in January, 2019.**
- 14 **T.ANAND, “MECHANICAL, WEAR AND VIBRATION BEHAVIOUR OF POLYIMIDE6 HYBRID NANO COMPOSTES”, 8th August, 2019 Pondicherry University in December, 2018.**

As Co-Guide

- 1 **K.MAHADEVAN, “INVESTIGATIONS ON THE INFLUENCE OF REINFORCEMENT AND SECONDARY PROCESSING ON Al-SiC_p COMPOSITES” 8 July, 2005, Annamalai University**
- 2 **G. MAHENDRAN, “DEVELOPMENT OF BONDING WINDOW FOR DIFFUSION BONDED DISSIMILAR MATERIALS” 26 February, 2009, Annamalai University**
- 3 **A.SIVAKUMAR “THE EFFECT OF SERPENTINE GROOVES ON HEAT TRANSFER CHARACTERISTICS OF MICROCHANNEL HEAT SINK WITH DIFFERENT NANOFLUIDS”, 31 December, 2015, Pondicherry University**
- 4 **R.SATHIYAMOORTHY, “ENHANCING WEAR RESISTANCE OF COMMERCIAL PURE TITANIUM BY THERMAL SPRAY COATINGS” Annamalai University**

DETAILS OF M.Tech PROJECTS GUIDED IN PONDICHERRY ENGINEERING COLLEGE

- 1 **A.KAMAL HASAN ALI “ Design and Simulation of An End Effector for an Articulated Robot To Pick And Place Light Weight Objects” 2007-08**
- 2 **M.SARAVANAN, “Determination of Activation Energy and Deformation Energy Of Ferrous And Non-Ferrous Metals” 2008-09**
- 3 **N.EJOMALE, “A Study On Influence of Process Parameters on Weldment In Spot Welding of Al6061T6” 2009-2010**
- 4 **M.KARUNAKARAN, “COMPARATIVE STUDY OF EDM PARAMETERS FOR DIFFERENT POWDER METALLURGICAL ELECTRODES” 2011-12**
- 5 **M.KANESAN, “STUDY ON THE MACHINING PARAMETERS OF ELECTRICAL DISCHARGE MACHINING (EDM) ON INCONEL600” 2011-12**
- 6 **K.VINOTH KUMAR, “MODELLING AND DESIGN OF DIE PROFILE EXTRUSION THROUGH NON-LINEAR CONVERGING DIES” 2012-13**
- 7 **D.AMRISHRAJ, “MODELLING AND OPTIMIZATION OF SLIDING WEAR BEHAVIOUR OF ALUMINIUM-GRAPHITE AND COPPER-GRAPHITE COMPOSITES” 2012-13**

- 8 **R.BADRINATH**, “STUDIES ON MECHANICAL BEHAVIOUR OF NATURAL FIBER REINFORCED POLYMER MATRIX COMPOSITES” 2013-14
- 9 **K.GOKULNADHAN**, “INVESTIGATION ON THE WEAR BEHAVIOUR OF TI-TiC COMPOSITES PRODUCED BY P/M METHOD” 2013-14
- 10 **R.VENKATAKRISHNAN**, “FABRICATION AND CHARACTERIZATION OF HYBRID NATURAL COMPOSITE”, 2014-15
- 11 **T.VIJAYAKUMAR**, “WEAR CHARACTERISTICS OF POLYURETHANE COATED 7075 ALUMINIUM ALLOY”, 2014-15,
- 12 **L.DHURGAA**, “DEVELOPMENT OF ELECTRODEPOSITED TiO₂ NANORODS REINFORCED NICKEL NANOCOMPOSITE” 2015-16
- 13 **T. GOPINATH**, “CHARACTERISATION OF HYBRID MATRIX NATURAL FIBER COMPOSITE” 2015-16
- 14 **S.KRISHNAKUMAR**, “Fabrication And Determination of Mechanical Properties of Aluminium based P/M Metal Matrix Composites” 2016-17
- 15 **R.SASIKUMAR**, “Wear and Microstructural Analysis of Nickel along with Boron Carbide Electro Deposited on Copper and High Carbon and High Chromium Steel” 2017-18.
- 16 **GIDLA VINAY**, “Influence of Process Parameters on Corrosion Behaviour of Cold Sprayed Zinc Coating on Mild Steel” 2018-19

COURSES ORGANIZED

- ISTE sponsored Summer School on “Competitive Manufacturing-Strategies and Techniques” during 29.05.1995-10.06.1995.
- AICTE-ISTE sponsored Winter School on, “Recent Trends in Diagnostic Maintenance” during 15-27, December, 1997.
- AICTE sponsored “Induction Training Programme for Teachers in Engineering Colleges” during 05-17, December, 2005.
- QIP-AICTE sponsored on week short term course on “Advances in Materials Processing Techniques”, 5-9 December, 2016.

MEMBERSHIP in PROFESSIONAL BODIES

- Fellow in Institution of Engineers (FIE)
- Life Member in the Indian Society for Technical Education
- Life Member in the Indian Society of Mechanical Engineers

ADMINISTRATIVE RESPONSIBILITIES HELD

- Controller of Examinations of Pondicherry Engineering College since 13.06.2018
- Head of the Department of Mechanical Engineering in Pondicherry Engineering College during 03.09.2009 – 25.09.2012
- AICTE inspection and institute evaluation committee member for EVCs

- Chairman, Board of Studies of Pondicherry University (Central University) during 2009-2012
- Member, Board of Studies of Anna University, Chennai
- Chairman, Central Valuation of Pondicherry University (Central University) during 2009-2012
- Member in the Department AICTE NBA preparation committee
- Coordinator of Centralized Admission Committee (CENTAC- responsible to conduct the admission process for Undergraduate Engineering and Medicine) for the year 2007-08- Nominated by the Govt.of.Puducherry
- Coordinator of M.B.A-CENTAC for years 2009-10 ,2010-11 and 2011-12 Nominated by the Govt.of.Puducherry
- Assigned in charge for college transport section between 2006and 2009- Responsible for men and vehicle maintenance management.
- Served in various committees formed by the college authorities