

CURRICULUM VITAE

Dr. S. Sundaram,

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Academic Qualifications:

Course	Name of the Institution / University	Year of Passing	% of Marks	Class
Ph.D (Mechanical Engineering)	Sathyabama University, Chennai, India	April 2010	-	-
M.Tech (Maintenance Engineering and Management)	IIT Madras, Chennai, India	December 1998	8.5/10 (CGPA)	First
B.E. (Mech)	Government College of Engineering, Salem / University of Madras, India	November 1990	62.15	First
DMRE	S.R.M.V. Polytechnic Coimbatore	May 1982	69	First

Teaching Experience

Principal, Vidyaa Vikas College of Engineering and Technology, Tiruchengode, from 23.08.2010 to till date,

Professor, K.S.R. College of Engineering, Tiruchengode, from 01.06.2005 to 21.08.2010. – **5 years**

Assistant Professor/ HOD i/c, Jeppiaar Engineering College, Chennai, from May 2002 to May 2005. – **3 years**

Principal, Andavar Polytechnic College, Gobichettipalayam, from March 1999 to May 2002. – **3 years**

Senior Lecturer, K.S. Rangasamy College of Engineering, Tiruchengode, from August 1994 to March 1999. **4.5 years**

Head of the Department, K.S. Rangasamy Institute of Technology, Tiruchengode, from June 1985 to July 1994. – **9 years**

PROJECTS

Under Graduate

Title: “Study and Design of Fluidized bed steam Generator”

Post Graduate

Title: “Acoustic emission response of Titanium alloy subjected to tensile testing under Ambient and Cryogenic condition”

Ph. D

Thesis title: “Wear Monitoring of single point cutting tool using Acoustic Emission Techniques”

PUBLICATIONS BASED ON Ph. D WORK

International Journals

1. **Sundaram S.**, Senthil Kumar P. and Manoharan N. (2007), ‘Study of Acoustic Emission Sensor Techniques for Monitoring Machining Process’, Journal of Engineering and Applied Science, ISSN 1816 - 949X, Vol. 2, No. 11, pp. 1581-1586.
2. **Sundaram S.**, Senthil Kumar P., Kumaravel A. and Manoharan N. (2008), ‘Crater wear monitoring of single point cutting tool using Acoustic Emission Sensor Techniques’, International Journal of Engineering Research and Industrial Applications’, ISSN 0974 – 1518, Vol. 1, No. IV, pp. 257-270.
3. **Sundaram S.**, Senthil Kumar P., Kumaravel A. and Manoharan N. (2008), ‘Flank wear monitoring in coated carbide tool using AE signal analysis, cutting force, Motor current and acceleration due to tool vibration’, International Journal of Signal System Control and Engineering Applications’, ISSN 1997-5422, Vol. 1, No. 2, pp. 159-162.
4. **Sundaram S.**, Senthil Kumar P., Kumaravel A. and Manoharan N. (2008), ‘Study of flank wear in single point cutting tool using Acoustic Emission Sensor Techniques’, ‘ARPN Journal of Engineering and Applied Sciences’, ISSN 1819–6608, Vol.3No. 4.
5. Kulandaivelu.P., **Sundaram S** and Senthil Kumar P.(2011), “Neural Network based wear monitoring of single point cutting tool using Acoustic Emission Techniques”, International Review of Mechanical Engineering, Vol. 5 No. 1, pp. 52 – 58.

6. Kulandaivelu.P., **Sundaram S** and Senthil Kumar P.(2012), “Investigate the Creator wear monitoring of single point cutting tool using adaptive Nero Fuzzy Inference System” Tamkang Journal of Science and Engineering, Vol.15, No.3, pp. 265 -274.
7. Kulandaivelu.P., **Sundaram S** and Senthil Kumar P.(2013), “ Wear monitoring of single point cutting tool using Acoustic Emission Techniques”, Sadhana – Academy Proceeding in Engineering Science, V38, Part 2, pp 211 - 234

International Conferences

1. **Sundaram S.**, Senthil Kumar P. and Manoharan N. (2007), ‘Single point cutting tool condition monitoring using Acoustic Emission Techniques’, ECHDEM International conference, Sathyabama University, Chennai, Vol. 1, pp. 156-159.
2. **Sundaram S.**, Ramesh S. and Palanikumar K. (2007), ‘Flank wear prediction model (ANN) for machining of Titanium alloy (Ti64) by PCD inserts’, NITJ – INDIA, CPIE – 2007, pp. 1-9.
3. Kulandaivelu.P., **Sundaram S** and Senthil Kumar P.(2010), “Flank wear tool condition monitoring for single point cutting tool using Acoustic Emission Techniques (AET)”, 6th International conference on advances in mechanical Engineering and Mechanics, Hammamet, Tunisia.

National Journals

1. **Sundaram S.**, Senthil Kumar P., Kumaravel A. and Manoharan N. (2009), ‘Study of Flank Wear Monitoring in Single Point Cutting Tool using AET, Curie Journal of BITS, Pilani, ISSN 0974 – 1305, Vol. 2, Issue 1, pp. 57-65.
2. **Sundaram S.**, Senthil Kumar P., Kulandaivel P. and Manoharan N. (2008), ‘Acoustic emission study of flank wear monitoring in coated carbide tool’, ‘Journal of Computer Applications’, ISSN 0974–1925, Vol. 1, No. 3, pp. 53-57.

National Conferences

1. **Sundaram S.**, Venkatachalam R. and Senthil Kumar P. (2007), 'Studies on frequency and damping of mild steel shaft disc system with different core material', National Conference, K.S.R College of Technology, Tiruchengode, pp. 159-163.
2. **Sundaram S.**, Kaliannan K. and Senthil Kumar P. (2006), 'A study of interrelationships between cutting force variation and tool wear in milling', ETDM national conference, Mahendra Engineering College, Namakkal, pp. 1-7.
3. **Sundaram S.** and Vemuri Lakshmi Narayana V. (2004), 'Study of tool failure in drilling by using magnetostrictive torque sensor', national conference on recent trends in manufacturing modeling and analysis MMA 2004, St.Josephs college of Engineering, Chennai, pp. 1-9.
4. **Sundaram S.** and Vemuri Lakshmi Narayana V. (2002), 'Experimental analysis of tensile strength properties for Titanium alloy under cryogenic condition by using Acoustic Emission Techniques', Proceedings of National Conference on advanced trends in mechanical Engineering Research and Development, JNTU, Anantapur, pp. 612-618.
5. Kulandaivelu.P., **Sundaram S** and Senthil Kumar P.(2011), "Studies on wear monitoring of single point cutting tool using Artificial Neural Network", National Conference on Universal innovations in Mechanical Engineering(UIME11) on 11th February 2011.
6. Kulandaivelu.P., **Sundaram S** and Senthil Kumar P.(2012), "Studies on wear monitoring of single point cutting tool using Intelligent Techniques", National Conference on Universal innovations in Mechanical Engineering(UIME12) on 10th February 2012.

Computer Skills**CAD/CAE Packages:** AutoCAD2008**Operating Systems:** Windows**Others:** Ms-Office, CNC Machine Programming.

Approved Journal reviewer

1 Journal of Engineering Science and Technology (JESTEC),

Taylor's University College, Taylor's Lakeside Campus, No1 Jalan Taylor's, 47500 Subang Jaya, Selangor DE, MALAYSIA

The Editorial Board has the pleasure and the honor to announce that our Journal of Engineering Science and Technology (JESTEC) is now indexed by Scopus.

2. International Journal of Scientific & Technology Research (IJSTR) ISSN 2277-8616

SUMMER TRAINING PROGRAMMES

1. Underwent National seminar on advanced Manufacturing Technology from 7 to 8th March 2003 at Anna University, Guindy, Chennai, and Tamilnadu.
2. Underwent "Latest Trends in Manufacturing for Global competitiveness" from 5.12.2004 to 19.12.2004 at Sathyabama Institute of Science and Technology Chennai, Tamilnadu.
3. Participated AICTE – ISTE sponsored short term programme on "E - LEARNING" from 12th December 2004 to 26th December 2004 at Sathyabama Institute of Science and Technology Chennai, Tamilnadu.
4. Underwent Three – day's workshop on Environmental Conscious Design and Manufacturing (Sponsored by Ministry of Environmental & Forests, New Delhi) at Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamilnadu.
5. Participated in one day workshop on "Renewable Energy – Energy of Future" On 19th August 2005 at K.S.Rangasamy college of Technology, Tiruchengode, Tamilnadu.
6. Participated in Eight Annual Convention of ISTE – Tamilnadu and Pondicherry section on "Innovations in Engineering Education – Trends and Focus" on 28th and 29th October 2005 at P.S.N.A college of Engineering and Technology, Dindigul, Tamilnadu.
7. NITTTR Quality Improvement programme on "Instructional Design and Delivery" from 19.06.2006 to 24.06.2006 at K.S.R. College of Engineering, Tiruchengode, Tamilnadu.
8. Attended (TNSCST - Chennai and NCSTC - New Delhi) one day workshop on "Accreditation – A Quality Education" on 29.09.2006 at SSM College of Engineering, Komarapalayam, Tamilnadu.

9. Participated as National conference on “Best Practices in Engineering Education” on 2nd – 3rd February 2007, organized by Engineering Education Foundation, Pune in association with Sinhgad Technical Education Society’s Engineering Institutes, Pune, Maharashtra, India.
10. Participated in one day workshop on “Promotion of Research and Faculty Development in Technical Institutions” On 7th February 2008 at JJ College of Engineering and Technology, Tiruchirapalli, Tamilnadu
11. Attended workshop of Anna University – Coimbatore on “Audit policy and Conduct of Internal and External Audit” on 16.07.2008, at Vivekanandha institute of Engineering and Technology, Tiruchengode, Tamilnadu.

MEMBERSHIP IN PROFESSIONAL BODIES

1. Associate Member (Life Member) International Association of Engineers (IAENG) – Membership No. 102168
2. Nominee member for Computer Society of India. Member No. – N1172713

ADDITIONAL INFORMATION

1. Best Teacher Award for the year 2002 – 2003 in Jeppiaar Engineering College, Chennai.
2. Best Professor Award for the year 2012 in Global awards by Association of Scientists, Developers and Faculties (ASDF) as unit of Techno Forum group.
3. Handled the Examination Section at KSR College of Engineering, Tiruchengode.
4. I have Experience in commissioning all kinds of Machines Like machine shop, Fluid Mechanics Lab, and Heat power Engineering Lab, Dynamics lab, Metrology lab and CAD/CAM Lab Etc.
5. Question paper setter for Anna University, Coimbatore and various university.
6. Board of Study member for Sona college of Technology, Salem.

Ph,D Guideship

Anna University of Technology, Coimbatore	- 6 Nos
Sathyabama University, Chennai	- 2 No



Signature