

PROFILE

Name: Dr. V.S. SENTHIL KUMAR

Designation: Associate Professor

Qualification: B.E (Mech. & Prodn.), M.E (Prodn.), M.B.A., Ph.D. (Mech.)

DOB: 01 – July –1970

Teaching&Industry Experience:19 years as on 01/03/2017.

Publications: International &National Journals:**98+6 = 104**

International & National Conferences:60+25=**85**

Research Projects:5, Completed: 5.



| | SI.No | Sponsoring Agency & Title of the Project | Grants-in-aid (Rs) (Lakhs) | Status |
|--------------|-------|--|----------------------------|----------------------|
| Major | 1. | DST/SERB (Govt. of India) –Design and Development of Metal MatrixComposites (Al-SiC _p) using Friction Stir Processing | 39.00 | Completed (2016) |
| | 2. | DRDO/ER&IPR (Govt. of India) - Experimental and Numerical studies on Twist Extrusion Process of Aluminium Alloys in Aerospace Industries | 24.10 | Completed (Dec 2014) |
| | 3. | DRDO/NRB (Govt. of India) - Experimental and Numerical studies of Friction Stir Welding of AZ31B Alloy | 24.00 | Completed (Mar 2013) |
| | 4. | UGC Major research scheme (Govt. of India) – “Investigations on friction stir processing of cast Aluminum alloys used in automobile industries” | 9.91 | Completed (Aug 2011) |
| Minor | 5. | Student innovative project Sponsored by CTDT – Multiple-Pass Friction Stir Welding and Processing of 2014 Aluminum Alloy | 0.25 | Completed (Oct 2011) |

Areas of Interest:

Production Engineering - Metal Forming, Super plastic forming, Warm Deep Drawing, Incremental Forming, Profile Forming, Twisted Extrusion, Hydro forming, Machining of Mnemonic Alloys, Computer Aided Process Planning, Friction Stir Welding, Friction Stir Processing of Al and Mg alloys, Composite Machining, Supply Chain management.

PhD Guidance: **Completed –14,** **Ongoing – 10.**

Journal Reviewer: Journal of Materials & Design, Materials & Manufacturing Processes, Surface & Coatings, Journal of Material Processing Technology, International Journal of Advanced Manufacturing Technology

Achievements/Awards:

- Received **Active Researcher Award** from the Vice- Chancellor Anna University, during the Teachers Day celebrations held at Anna University, Chennai-25 on 5 September 2013.
- Received **Best Paper Award** in the International Conference on Advances in Industrial Engineering Applications (*ICAIEA 2010*) held at Anna University, Chennai-25 on 6-8 January 2010.
- **TEAM TECH 2004 Award** received for best Paper Presentation in the International Conference held at IISc, Bangalore on Nov 2-4 August 2004.
- **Principal Investigator** for Four funded research projects for *UGC ,DRDO/(NRB,ER&IPR)& DST/SERB* (On going).

Books Published:5

- Authored a book “**Manufacturing Technology II “in Tamil** published by Academic Course, Anna University in the year 2013.
- *Co Authored* **Professional Ethics and Human Values** - Prentice Hall of India - 2013
- *Co Authored* **Manufacturing Technology Lab Manual-II in Tamil** published by Academic Course, Anna University in the year 2012.
- *Co Authored* **Basic Engineering Practices Lab Manual in Tamil** published by Academic Course, Anna University in the year 2011.
- *Co Authored* **Engineering Ethics and Human Values** - Prentice Hall of India – 2004.

Book Chapters: 2

- **V.S. Senthil kumar**, C.Ezilarasan, “Soft Computing Applications in Drilling of GFRP Composites: A Review” Materials Science Forum Vol. 766 (2013) pp 99-107, © (2013) Trans Tech Publications, Switzerland.
- K. Palanikumar, B. Latha, **V.S.Senthilkumar**, J. Paulo Davim, “Application of Artificial Neural Network for the Prediction of Surface Roughness in Drilling GFRP Composites”, Materials Science Forum Vol. 766 (2013) pp 21-36, © (2013) Trans Tech Publications, Switzerland.

Patents Filed:

- An *Indian patent* filed through IPR, Anna University, Chennai in the area of Manufacturing of Fuel Cell, App. No. 1544/CHE/2010.Dtd: 3/06/2010
- An *Indian patent* filed through IPR, Anna University, Chennai in the area of Friction Stir Welding, Appn. No 3002/CHE/2014.Dtd: 20/06/2014

Responsibilities-Academic:

- **Delivered online Lecture** for Affiliated Engineering College students through **AnnaEduSat** program from 09-01-2012 till 30-04-2012.
- *Organized an International Workshop* as a Coordinator – *EMFT 2010* – during 11th-12th, November 2010
- *Organized an International Conference* as a Assistant Organizing Secretary – *AMPC 2006* during 28th-30th, August 2006
- *Examiner for Ph. D. Thesis* for Visveswarayya Technological University, Karnataka; Andhra University, Osmaniya University, JNTU, Andhra Pradesh; and Bangalore University, Bangalore. Multimedia University, Malacca Campus, Malaysia..
- Board of studies member for Bharat University & Tamil Nadu sports University.
- *Exam Result Passing Board member* for Government college of Technology, Coimbatore.

- *Question Paper Setter* for the Anna University Technology Chennai, Anna University Technology Thirunelveli, Anna University & Annamalai University, Annamalai Nagar, Chidambaram.

Responsibilities-Administrative:

- Serving as **Additional Director** for **Centre for Technology Development and Transfer**, Anna University, Chennai from 25.02.2015 to Till Date
- Served as **Deputy Controller of Examinations** (Distance Education), Anna University, Chennai from 09.08.2007 till 17.01.2013.
- Serving as **PhD/MS thesis Scrutiny Committee member** from 08.05.2012.
- Served as **PG Exams Chief Superintendent & Project Coordinator** For Mechanical Engineering Department 2009-10
- Served as **Purchase Committee Member** For civil Department 2009-2010
- Served as **University Sports board Member** from 2006 to 2009
- Served as **Assistant Warden**, College of Engineering Guindy hostels from 18.03.2006 to 25.07.2008.

Membership in Professional Bodies:

Life member in ISTE, IWS, ORSI, MMS, IAENG, F ISME, MRSI, ASME, FIE.C.Engg

Contact:

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Email: vsskumar@annauniv.edu, vssk70@gmail.com **Ph:** 044-22357738 **Mobile:** 9444952438

Work Experience:

Teaching:

| Sl.No. | Position | Institution | Period |
|--------|--|--|--------------------------|
| 1 | Associate professor | College of Engineering Guindy, Anna University, Chennai. | 30-07-2006 to Till date |
| 3 | Lecturer | College of Engineering Guindy, Anna University, Chennai. | 21-07-2005 to 29-07-2006 |
| 4 | Assistant professor | Sathyabama University, Chennai. | 10-06-2005 to 21-07-2005 |
| 5 | Teaching Research Associate (Mechanical Engineering) | College of Engineering Guindy, Anna University, Chennai. | 19-01-2001 to 18-01-2005 |
| 6 | Lecturer - (Production Engineering) | Dr.M.G.R.Engineering College, Chennai. | 16-12-1998 to 18-01-2001 |

Industry:

| Sl.No. | Position | Organisation | Nature of work | Period |
|--------|------------------|--------------------------------------|-------------------------|--------------------------|
| 1 | Project Engineer | JNW Engineering Pte. Ltd, Singapore. | Service and Maintenance | 11-06-1998 to 29-11-1998 |
| 2 | Project engineer | M/S.Venus Engineers, Chennai. | Project Execution | 21-06-1997 to 29-04-1998 |

Educational Qualifications:

| Degree | Discipline | University / Institution | Year of Completion |
|---------------|-------------------------------------|------------------------------------|--------------------|
| Ph.D. | Mechanical Engineering | Anna University, Chennai-25. | 2005 |
| M.E. | Production Engineering | Annamalai University, Chidambaram. | 1996 |
| B.E. | Mechanical & Production Engineering | Annamalai University, Chidambaram. | 1995 |
| M.B.A. | Production & HR Management | Annamalai University, Chidambaram. | 2000 |