



Dr. M. Senthil Kumar

Professor and Head

Ph.D.- Anna University. **2000**

M.E - Anna University. **1992**

A.M.I.E. – The Institution of Engineers (India). **1989**

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Research Interests:

- Automotive Engines
- Vehicle Dynamics
- Automotive Electronics
- Electric Vehicles

Teaching:

- IC Engines
- Automotive Transmission
- Vehicle Body Engineering

Selected Recent Publications

1. **Senthil Kumar M.** and hari Prasad K., “**Studies on Effect of Change in Dynamic Behavior of Crack using FEM**”, International Journal of Recent Trends in Engineering, ACEEE, 2009, PP. 137-141.
2. **Senthil Kumar M.** and hari Prasad K., “**Studies on Effect of Change in Dynamic Behaviour of Crack using FEM**” International Journal in Recent Trends in Mechanical Engineering, ISSN 1797-9617, Vol. 1, No. 5, Page no: 137-141.ACEEE Publication, Finland, 2009.
3. **Senthil kumar .M,** Sendilvelan . S, . S, Muthaiah . P.L.S, “**Experimental analysis of catalytic converter using supported copper catalyst to reduce NOx and PM from diesel engine** ” – paper accepted for publication in International journal on Mechanical and Automobile Engineering.
4. **Senthil Kumar M.** and hari Prasad K., “**Thermal Characterization of PP/Na+-MMT Composite materials**”, to be Published in the International Journal in Journal of material Science and Engineering, Vol. 3, Dated on December 2010, David Publication, USA
5. Krishna Sastry K.V., Seshagiri Rao V., **Senthil Kumar M** and Velayudham A, “Experimental Evaluation of Thrust Force, Torque, Ovality and surface roughness in drilling of CFRC composites”, International Journal of Advanced Research in Mechanical and

Production Engineering and Development, Vol.1, pp.107-116, Impact factor 1.398 – ISSN: 2320-7256, (April, 2014).

6. Krishna Sastry K.V, Seshagiri Rao V, **Senthil Kumar M** and A Velayudham, “Experimental Analysis of Hole Ovality in drilling of Carbon-Carbon composites”, Applied Mechanics and Materials, 592-594, pp. 294-301, **Impact factor 0.13 –ISSN: 1660-9336**, (July, 2014).

7. Krishna Sastry K.V., Seshagiri Rao V., **Senthil Kumar M**, Velayudham A and Palanikumar K, “Application of Taguchi and GSA for Drilling of CFRC Composite Material”, Artificial intelligence and Machine systems, Vol. 7, pp. 267-273, Impact factor 0.763 – ISSN:0974-9543(O), 0974-9667(P), (August,2014).

8. Krishna Sastry K.V., Seshagiri Rao V., **Senthil Kumar M**, Velayudham A. and Palanikumar K, “Determination of influence of Thrust Force on The Drilling Parameters of RCC Composite Material”, International Journal on Recent Researches in Science, Engineering and Technology, Vol.2, pp.1-11, Impact factor 1.46 – ISSN:2348-3105(O),2347-6729(P), (October,2014).

9. Krishna Sastry K.V., Seshagiri Rao V., **Senthil Kumar M** and Velayudham A., “Delamination Analysis of Reinforced Carbon - Carbon Composite Materials”, Manufacturing Technology and Research, Vol.10, No.2, pp.40-45, ISSN: 0973-0281, (July-Dec, 2014).

10. Chandran, V, Manvel Raj, T, Lakshmanan, T & **Senthil Kumar, M** 2014 ‘Application of Ground Tire Particle (GTP)-Silica (Si) in Partial Natural Rubber Compounds for Solving Environmental Problems’, International Journal of Applied environmental science, vol. 9, pp. 1959-1967. (**Annexure - II**)

11. Chandran, V, Manvel Raj, T, Lakshmanan, T & **Senthil Kumar, M** 2015, ‘Evaluation of performance of natural rubber composites with different sizes of waste tyre rubber (WTR) and precipitated silica on C-M-M’, The Arabian Journal for Science and Engineering, vol. 40, pp. 1187–1196. (**Annexure - I**)

12. Chandran, V, Manvel Raj, T, Lakshmanan, T & **Senthil Kumar, M** 2015 ‘Influence of natural rubber composites on different fillers to assess mechanical performance’, International Journal of Engineering Transactions C, vol. 28, pp. 881–893 (**Annexure - II**).

13. Madhivanan, K, **Senthil Kumar, M** & Ramesh, R, 2016, 'Analysis of vibration signal responses in friction stir welding using Embirical mode decomposition', International Journal of Printing, Packaging and allied sciences, (Accepted for publication) (**Annexure-I**)

14. Madhivanan, K, **Senthil Kumar, M** & Ramesh, R, 2017, 'Vibration Signal Responses Classification in AA 6063 Aluminum Alloy Friction Stir Welded joint Using Optimal Neural Network', International Journal of Business Intelligence and Data Mining, Vol.12, No.4, pp 358 - 382. (**Annexure-I**)

Sponsored Projects:

- TVS
- Brakes India
- TNSTC

Additional Information

1. Designed Innovative Engineering Templates which are useful for drawing pro circles, triangles, squares, pentagons, hexagons, etc... **Two designs have been registered in the Patent Office of The Government of India.**

2. For the benefit of the students I developed **State of the Art CBT software package for the in Engineering Graphics, which is the first and the only software available as on date**, subject using Visual Basic. This has received lot of appreciation from both students and staff community.

In **Bharath University** he has obtained funding of Rs. 5.5 Crores from the Dept. of Sci. & Tech. for establishing Technology Business Incubator Centre.

Membership of Professional Bodies/Organization:

- Fellow – The Institution of Engineers (India)
- Life Member – Indian Society for Technical Education
- Life Member – Indian Society of Mechanical Engineers, Delhi.
- Life Member – Computer Society of India

Invited talks and Guest lectures:

Conducted a Global Webinar Based One Day Program on **“Learn Solid Modeling in a Day”** on 20th Jul 2012, which is a maiden effort by 5 Tamil Nadu Engg. Colleges in which **SKR Engineering college** acted as the host institution. The colleges participated in the program, as satellite venue, were: **Jayaram College of Engineering & Technology – Trichy, Karpagam Institute of Technology – Coimbatore, Dr. Sivanthi Aditanar College of Engineering – Thiruchendur, Bharathidasan Engineering College – Vellore, Samskruthi College of Engg. & Tech., Hyderabad and also an Overseas University - Rajamangala University of Technology, Thailand.** It is the first time that the learning sessions on SolidWorks has been facilitated through webinar, and the colleges have been benefitted at large by these session handled by him.