

Faculty Profile

1. Name : N.Tiruvankadam
2. Designation : Associate Professor
3. Date of Joining : 03.06.2008
4. Nature of Association : Regular
5. E mail :
tiruvankadam@ksrct.ac.in
6. Mobile no. : +91 9942617691



7. Academic Qualifications:

Course	Name of the Institution / University	Year of Passing	% of Marks	Class
M.E (CAD/CAM)	Kongu Engineering College, Perundurai, Erode -52. <i>Affiliated to Anna University, Chennai.</i>	May 2007	80.43%	First Class with distinction
B.E. (Mechanical Engineering)	Sakthi Institute of Technology, Sakthi Nagar, Erode -15. Directorate of Technical Education, Chennai.	April 2005	76.10 %	First Class
Diploma	Sakthi Institute of Technology, Sakthi Nagar, Erode -15. Directorate of Technical Education, Chennai.	May 1992	84 %	First Class and Gold Medalist
S.S.L.C.	Govt. High School, P.Mettupalayam	March 1989	66.80 %	First Class

Teaching Experience

- **Associate Professor**, K.S.Rangasamy College of Technology, Tiruchengode, from 01.05.18 to Tilldate.
- **Assistant Professor**, K.S.Rangasamy College of Technology, Tiruchengode, from 01.08.11 to 30.04.18.
- **Lecturer**, K.S. Rangasamy College of Technology, Tiruchengode, from 03.06.08 to 31.07.11

8. Projects

Ph.D

- **Title:** “Development of Nano Hybrid Composite Cylinder Linear for Energy savings in Diesel Engines”

9. Publications

International Journals

1. **Tiruvankadam, N**, Thyla, PR, Senthilkumar, M, Bharathiraja, M & Murugesan, A (2015), 'Synthesis of new aluminum nano hybrid composite liner for energy saving in diesel engines', *Energy Conversion and Management*, vol. 98, pp. 440–448, *Elsevier*
2. **Tiruvankadam, N**, Thyla, P.R, Senthilkumar, M, & Bharathiraja, M (2016), 'Development of optimum friction new nano hybrid composite liner for biodiesel fuel engine', *Transportation Research Part D: Transport and Environment*, vol.47, pp. 22-43, *Elsevier*
3. **Tiruvankadam, N**, Thyla, PR & Senthilkumar, M (2013), 'Development of Energy saving and Environment Friendly Aluminum Hybrid Composite Materials for Vehicle Applications', *Advanced Materials Research*, vol. 768 pp.195-198.
4. Thyla, PR., **Tiruvankadam, N** & Senthil Kumar, M (2015), 'Investigation of Corrosion Behavior of Light Weight Nano Hybrid Al 6061-ZrO₂ –SiC- Gr Composites', *International Journal of ChemTech Research*, vol. 8 no.10, pp. 312-316.
5. Thyla, PR., **Tiruvankadam, N** & Senthil Kumar, M (2015), 'Effect of Environmental Conditions for New Hybrid Aluminium Metal Matrix Composites Wear', *Journal of Advances in Mechanical Engineering and Science*, vol.1, no.2, pp 1-8.
6. Bharathiraja, M, Venkatachalam R, **Tiruvankadam N** (2016), 'Experimental analysis of exhaust gas after treatment system using water scrubbing in a single cylinder diesel engine for diesel and biofuel blends', *Transportation Research Part D: Transport and Environment*, vol. 49, 291-300, *Elsevier*.
7. M Bharathiraja, M, Venkatachalam, R, Murugesan, A, **Tiruvankadam, N** (2016), 'Experimental investigation of a novel alcohol fumigation in a single-cylinder constant speed diesel engine', *International Journal of Ambient Energy*, vol.38, pp 794-802, *Taylor & Francis*, SCImago Journal Rank (SJR).
8. **N. Tiruvankadam**, R. Raghul, P.R. Karthik (2017), "Development of Driver Fatigue Monitoring and Alarming System using OpenCV" *Transactions on Innovations in Science & Technology* vol.(3) 26-30.

International Conferences

1. **N.Tiruvankadam** ,P.R.Thyla , M.Senthil Kumar, Naseef Abdul Kader,V. K. Pradeep, R.Vishnu Kumar, N. Sasikumar, "Development of Multipurpose Reciprocating Wear Tester under Various Environmental Parameters", St. Xavier's Catholic College of Engineering, Nagercoil, IEEE International Conference on Energy Efficient Technologies for Sustainability on 10-12 April, 2013.
2. **N. Tiruvankadam** , P.R. Thyla , M. Senthil Kumar, S. Mohan Raj, M. Mohammed Salman, S. Muthu Kumar,G. Hari Kumar, S. Vijay Amirtharaj, "Investigations of Co- Efficient of Thermal Expansions and Corrosion Behaviour of Aluminium 6061 Micro and Nano Hybrid Composites Developed by Stir Casting Technique", St. Xavier's Catholic College of Engineering, Nagercoil, IEEE International Conference on Energy Efficient Technologies for Sustainability on 10-12 April, 2013.

3. **N.Tiruvnkadam**, P.R.Thyla, M.Senthilkumar, Don Bosco Thomas, A. Srikanth,S. Syed Ismail Faiyaz, “Development of Energy Saving And Environment Friendlyaluminium Hybrid Composite Materials For Vehicle Applications”, St. Xavier's Catholic College of Engineering, Nagercoil, IEEE International Conference on Energy Efficient Technologies for Sustainability on 10-12 April, 2013.
4. P.R.Thyla , **N.Tiruvnkadam** , M.Senthil Kumar, P.R.Senthil Murugan , Y.Sudhakar, R.Rajalingam ,S.Karthikeyan, “Failure Analysis In Diesel Engine Cylinder Liner Using Exponential FMEA Technique – A Case Study”International Conference on Advances in Tribology (ICAT 14) 21-24 Feb 2014, NIT Calicut.
5. P.R.Thyla , **N.Tiruvnkadam** , M.Senthil Kumar ,P.R.Senthil Murugan , Y.Sudhakar, R.Rajalingam ,S.Karthikeyan, “Failure Analysis In Diesel Engine Cylinder Liner Using Exponential FMEA Technique – A Case Study”,International Conference on Advances in Tribology (ICAT 14) 21-24 Feb 2014, NIT Calicut.
6. M.Bharathiraja, R.Venkatachalam, **N.Tiruvnkadam**, “Experimental Investigation of Alcohol Fumigation in Constant Speed Diesel Engine” International Conference on Sustainable Energy Technologies (ICSET 2014) December11-13, 2014, PSG college of Technology, Coimbatore.
7. **N.Tiruvnkadam**, P.R.Thyla, M.Senthilkumar, A.Murugesan, M.Bharathiraja, “Performance and emission of bio fuel operated IC engine using nano hybrid composite cylinder liner”, International Conference on Sustainable Energy Technologies (ICSET 2014) December11-13, 2014, PSG college of Technology, Coimbatore.
8. **N.Tiruvnkadam**, P.R.Thyla ,M.Senthil Kumar, M.Bharathiraja, R. Harish, “IC Engine friction and wear reduction using Coating and material change Route – A Review”, International Conference on Advances in Mechanical and Mechatronics Engineering ICAMME 2014, December 26 - 28, 2014, Sri Krishna College of Engineering and Technology, Coimbatore.
9. M.Bharathiraja, R.Venkatachalam, **N.Tiruvnkadam**, “Experimental Investigation on exhaust gas treatment system on single cylinder diesel engine”, International Conference on Advances in Mechanical and Mechatronics Engineering ICAMME 2014, December 26 - 28, 2014, Sri Krishna College of Engineering and Technology, Coimbatore.
10. **Tiruvnkadam, N**, Thyla, PR, SenthilKumar, M, Senthilmurugan, PR, Sridhar, D and Vijay Ananth, T, (2015), “Scrutiny of nano technology applications for diesel engine performance enhancement and emission control”, International Conference on Nanomaterials And Nanotechnology, NANO 2015, K.S.Rangasamy College of Technology, Tiruchengode

National Conferences

1. **N.Tiruvnkadam**, P.R.Thyla, M.Senthil Kumar, S.Vijay Amirtharaj, A.Srikanth S. Syed Ismail Faiyaz, N.Sasikumar, “Tribological and Mechanical Characteristics of Aluminium Hybrid Composite – A Review”, Twenty-eighth National Convention of Mechanical Engineers and National Seminar on Emerging Technologies in Product Development for Safe and Sustainable Mobility, PSG College of Technology, Coimbatore Sep 3-5, 2012, Page A-18.

2. **N.Tiruvenkadam**, P.R.Thyla, M.Senthilkuma, Don Bosco Thomas, “Role of composite materials to control energy loss and safety environment in automobile components –A Review”, Twenty-eighth National Convention of Mechanical Engineers and National Seminar on Emerging Technologies in Product Development for Safe and Sustainable Mobility,PSG College of Technology, Coimbatore, Sep 3-5, 2012, Page A-48.
3. **N.Tiruvenkadam**, P.R.Thyla, M.SenthilKumar, S.Muthu kumar, S.Mohanraj, M.MohammedSalman, G.Harikumar, “Investigation of Mechanical Properties of Al6061hybridcomposites Developed by Stir Casting Technique” Proceedings of the National Conference on Recent Trends in Mechatronics & Industrial Safety Engineering (RIMISE 2013), March 2013, K.S.Rangasamy College of Technology, Tiruchengode.
4. **N.Tiruvenkadam**, P.R.Thyla, M.Senthil Kumar, Naseef Abdul Kader, V. K. Pradeep, R. Vishnu Kumar, “Development of reciprocating tribometer for tribological investigation of materials”, Proceedings of the National Conference on Recent Trends in Mechatronics & Industrial Safety Engineering (RIMISE 2013), March 2013, K.S.Rangasamy College of Technology, Tiruchengode.
5. **N.Tiruvenkadam**, R.Raghul, P.R.Karthik, “Development of driver fatigue monitoring and alarming system using open cv”, Proceedings of National Conference on Recent Advances in Science & Engineering NCRASE-2017, University College of Engineering Pattukottai (A constitution College of Anna University Chennai), Rajamadam.

10. Fellowships

Nil

11. Summer Training Programmes

Nil

12. Funds Received to Organize the Seminar

- Received Grants-in-aid Rs. 60,000/- from All India Council for Technical Education (AICTE), to conduct the two days national seminar on “Computational Intelligent Techniques of Machine Vision System at Low Cost Automation for Manufacturing Industries”: on 22-23 June 2010 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **File No.: 1-4/RID/SEM/1 Dated. 07/09/10.**
- Received Grants-in-aid Rs. 40,000/- from Indian Council Medical Research (ICMR),, to conduct the two days national seminar on “Internet of Things (iot) in non-Invasive Healthcare Systems”: on 21-22 June 2017 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **File No.: 7/79/17-Seminars (HRD) Dated. 21.03.2017.**
- Received Grants-in-aid Rs. 40,000/- from Indian Council Medical Research (ICMR), to conduct the two days national seminar on “Conference on Additive Manufacturing (3D Printing) in Bio Medical Applications”: on 23-24 August 2017 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **File No.: No.7/142/17-Seminars (HRD), Dated.28.04.2017.**

- Received Grants-in-aid Rs. 1,00,000/- by Science and Engineering Research Board (SERB), DST to conduct the two days national seminar on “Design of Experiments in Bioprocess Optimization” on 0 –05 January 2018 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **Letter sanctioning grant-in-aid No.: SB/SS/2017/001042 Dated. 26.03.2018**

Invited Lecture Delivered

- Dynamics of Machinery Special Lecture delivered at Sri Vengateswara Hi Tech Engineering College, Gobichettipalayam, Tamil Nadu.
- Acted as a Jury for Project Expo 2017 at KSR Institute for Engineering and Technology, Tiruchengode on 20.3.2017

13. Membership in Professional Bodies

- **Life Member**, Member in Indian Society of Technical Education – LM 43582.
- **Life Member**, Association for Machines and Mechanisms Member (IITM) – A 20090053.

14. Awards and Recognitions

- **Gold Medal** received for Proficiency in Studies during Diploma.
- 9 Times **100% Result Achiever** Award in Anna University Chennai & Autonomous exam at KSR College of Technology.

15. Research Activities

- Diesel engine emission reduction and energy saving
- Advanced coatings
- Nano-hybrid composites
- Automobile tribology
- Alternative fuels
- 3D Printing, Reverse engineering.

16. Abroad Visit

Nil

17. Personal Details

Fathers Name : Late. M.R.Narayanasamy

Date of Birth & Age : 25.06.1974 & 45 Years

Gender : Male

Marital Status : Married

Permanent Address : 13, Main Road, P.Mettupalayam Post
Bhavani Taluk, Erode District
Tamil Nadu, India- 638 315.