

## Faculty Profile

1. Name : Santhanam. K
2. Designation : Professor
3. Date of Joining : 14.12.2005
4. Nature of Association : Regular
- 5.
6. Mobile no. : +91 98428 87155
7. **Academic Qualifications:**



Course	Name of the Institution / University	Year of Passing	% of Marks	Class
Ph.D (Composite materials)	Anna University	November 2018	-	-
M.E (Engineering Design)	Bannari Amman Institute of Technology, Sathyamangalam / Anna University	May 2005	77	First
B.E. (Mech)	K.S.Rangasamy College of Technology, Tiruchengode / Periyar University	April 2003	77	First
DIPLOMA	Sakthi Institute of Technology / DOTE	April 1998	85	First
S.S.L.C.	Govt. Boys. Hr. Sec School, Bhavani, / State Board	March 1995	85	First

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### 8. Teaching Experience

- **Professor**, K.S.Rangasamy College of Technology, Tiruchengode, from 14.12.2018 to till-date.
- **Assistant Professor**, K.S.Rangasamy College of Technology, Tiruchengode, from 01.12.2010 – 13.12.2018.
- **Senior Lecturer**, K.S.Rangasamy College of Technology, Tiruchengode, from 01.12.2008 – 30.11.2010.
- **Lecturer**, K.S.Rangasamy College of Technology, Tiruchengode, from 14.12.2005 – 30.11.2008.

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### 9. Projects

#### Under Graduate

- **Title:** “Design and fabrication of Automatic Juice packing machine”

#### Post Graduate

- **Title:** “Design and fabrication of granulating equipment”

## Ph. D

- **Thesis title:** “Studies on Ipomoea Staphylina fiber characterization and Mechanical properties of Ipomoea Staphylina fiber reinforced epoxy composites”

## 10. Publications

### International Journals

1. **K. Santhanam**, A. Kumaravel, Effect of fiber loading and surface treatment on the mechanical properties of coconut sheath fiber reinforced epoxy composites, *Advanced Materials Research*, 2014, Vol. 984-985, pp. 178-184. (ISSN: 1662-7482)
2. **K.Santhanam**, A. Kumaravel, S. S. Saravanakumar, V. P. Arthanarieswaran, Characterization of new natural cellulosic fiber from the *Ipomoea staphylina* plant, *International Journal of Polymer Analysis and Characterization* 2016, Vol. 21 (3), pp. 267 – 274. **Impact Factor:** 1.23, DOI:10.1080/1023666X.2016.1147654
3. S Kasiviswanathan, S., **Santhanam, K.** and Kumaravel, A., 2015. Evaluation of mechanical properties of natural hybrid fibers, reinforced polyester composite materials. *Carbon: Science and Technology*, 7(4), pp.43-49.
4. Kumar, M. S., Selvan, C. P., **Santhanam, K.**, Kadirvel, A., Chandraprabu, V., & SampathKumar, L. (2022). Effect of Nanomaterials on Tribological and Mechanical Properties of Polymer Nanocomposite Materials. *Advances in Materials Science and Engineering*, 2022.

### International Conferences

1. M. Anbalagan, **K. Santhanam**, A. Kumaravel, Tribological behavior of polymer composite materials, *International Conference on Computational Intelligence and Advanced Manufacturing Research (ICCIAMR 2014)*, Page. 210, May 2-3, 2014, School of Engineering, VELS University, Chennai – 600 117. ISBN – 978 – 81 – 924031 – 7 – 5.
2. M. Vijayakumarn, **K. Santhanam**, A. Kumaravel, Design and Simulation of tractor trailer mobility, *International Conference on Computational Intelligence and Advanced Manufacturing Research (ICCIAMR 2014)*, Page. 218, May 2-3, 2014, School of Engineering, VELS University, Chennai – 600 117. ISBN – 978 – 81 – 924031 – 7 – 5.
3. **K. Santhanam**, A. Kumaravel, Effect of fiber loading and surface treatment on the mechanical properties of coconut sheath fiber reinforced epoxy composites, *International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID 2014)*, Page

No.: 1448 – 1451, Department of Mechanical Engineering, Ponjesly College of Engineering, Nagercoil - 629003.

### **National Conferences**

1. A Karthik, **K Santhanam**, P S Sampath, A Kumaravel, Mechanical behaviour of palmfiber/coconut fiber epoxy hybrid composites, *Proceedings of 4th National Conference on Recent Trends in Mechanical Engineering (RAME 2012)*, Page No. 11, Department of Mechanical Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637 215.

### **11. Summer Training Programmes**

- Two days national workshop on “Applications of ANSYS for global product design” at Government College of Technology, Coimbatore during 20 – 21 May 2006.
- One day workshop on “Renewable Energy - Today and Tomorrow” at K.S.Rangasamy College of Technology, Tiruchengode on 6th October 2006
- Two days national workshop on “Nanotechnology ” at K S Rangasamy College of Technology, Tiruchengode during 11th – 12th January 2007
- Six days short term training programme on “Recent developments in simulation. Modeling and their applications to modern manufacturing practice” at AMRITA Viswa Vidyapeethan, Coimbatore during 26 – 31 March 2007
- 15 days FDP on “Design of Transmission Systems ” at K S Rangasamy College of Technology, Tiruchengode sponsored by Anna University, Chennai during 12th – 24th November 2007
- 3 days symposium on “Acoustics ” at K S Rangasamy College of Technology, Tiruchengode during 5th – 7th December 2007
- 15 days AICTE sponsored SDP on “Finite Element Analysis ” at Dr.Mahalingam College of Engineering & Technology, Pollachi during 25th May - 07th June 2008
- 5 days course on “Product Life Management using CAD ” by IUCEE at Infosys Technologies, Mysore during 14th – 18th July 2008
- Three weeks course in “Communicative English” at K.S.Rangasamy College of Technology, Tiruchengode during 6-10-2008 to 27-10-2008.
- One day workshop on “Engineering Graphics using Drafting software” at K.S.Rangasamy Collge of Technology, Tiruchengode on 22nd June 2010.
- Two weeks staff development progamme on “Micro machining and micro electro mechanical systems” at Adhitamaan College of Engineering, Hosur. During 13th – 27th June 2011.
- Two days annual technical forum on “Educators Day ” by National Instruments at Bangalore during 12th -13th October 2011
- One day workshop on “Nano materials” at IRTT, Erode on 18.09.2012
- Two days workshop on “Applications in Mechanical Engineering using NI LabVIEW Platform – A Practical Approach ” Sri Ramakrishna Engineering College, Coimbatore during 15th – 16th March 2013

- 5 days AICTE sponsored short term course on “Recent Trends in Composites Manufacturing” at Indian Institute of Technology Madras during 10th – 14th February 2014
- One day national seminar on “Research focus on Nondestructive testing and evaluation of composite materials” held on 21st February 2014 at Kongu Engineering College, Perundurai, Erode.
- Two weeks faculty development programme on “Processing and Characterization of Composite materials” at Dr.Mahalingam College of Engineering & Technology, Pollachi during 20th April – 03rd May 2015.
- Eight days faculty development programme on “ME 6503 Design of Machine Elements” at K.S.Rangasamy College of Technology, Tiruchengode during 15th to 22nd June 2015.
- One day national seminar on “ Composite Materials ”at K S Rangasamy College of Technology, Tiruchengode on 11th September 2015
- One day workshop on “Characterization of Natural Fibers and How to write Research articles on Fiber Characterization” at Kamaraj College of Engineering & Technology, Virudhunagar on 11th February 2016
- Two days national seminar on “Current trends in biomaterials and application of FEM in dentistry” at K.S.Rangasamy College of Technology on 09th and 10th of September 2016.
- Two weeks faculty development programme on “Rapid Casting Techniques” at Guru Nanak Institute of Technology, Hyderabad. During 27-11-2017 to 09-12-2017.
- 5 days International Faculty Development Program on Emerging Research Areas in Engineering” Organized by Department of Mechanical Engineering in Association with The Institution of Engineers (India), SRM Institute of Science and Technology, Ramapuram Campus, Chennai-600089, from 5th June to 9th June 2020.
- Three days International Webinar Series on "World Wide Effect of COVID on Research & Development" organized by Dept. of Physics, Govt. V. Y. T. PG. Auto. College, Durg & Bhilai Institute of Technology, Raipur during 24th - 26th June 2020.
- Six Days Online Faculty Development Programme (FDP) on “Nanomaterial Synthesis, Process, Characterization and its Functional Applications” Organized by the Department of Automobile Engineering from 6th - 11th July 2020.
- Two days webinar on “Data Sciences and Machine Learning” Organized by Department of Mechanical & Automobile Engineering, Kongu Engineering College, Perundurai, held during 08th & 09th August,2020.
- Five Days Faculty Development Program on Product Design Engineering using Fusion 360 conducted by ICT Academy on 09 May 2022 to 13 May 2022 at KS Rangasamy College of Technology (Autonomous).

## 12. Funds Received to Organize the Seminar

- Received Grants-in-aid Rs. 60,000/- by All India Council for Technical Education (AICTE) to conduct the two days seminar on “Composite Materials Design Challenges and Opportunities” on 25-26 June, 2009 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **Letter sanctioning grant-in-aid No. 1-4/FD/SEM/366/8/9 Dated. 16.03.2009.**

## 13. Membership in Professional Bodies

- **Life Member**, Indian Society of Technical Education (ISTE) – LM 54024.

#### 14. Awards and Recognitions

- Received first prize in District level skill summit 2017 Namakkal district level project competition organized by skill India.
- Received award for Innovative Technological Research & Dedicated, Best Academician Award Specialization: Mechanical Engineering

#### 15. Research Activities

- Total **Citations**:62 , **h – Index**: 3, **i10 Index**: 2
- **Area of Expertise/Research Interests**
  - Natural Fiber Composites
  - Tribological Behavior of Composite Materials

#### 16. Subject Handled

- 1.Kinematics of Machinery
- 2.Entrepreneurship Development
- 3.Manufacturing Technology II
- 4.Dynamics of Machinery
- 5.Engineering Mechanics
- 6.Concepts of Engineering Design
- 7.Mechanical Vibrations
- 8.Advanced Material Technology
9. Strength of Materials
10. Composite materials

#### 17. Personal Details

**Fathers Name** : T. Kadhiresan

**Date of Birth & Age** : 15.06.1980 & 42 Years

**Gender** : Male

**Marital Status** : Married

**Permanent Address** : 4/575 N, Palani Andavar Kovil Street,  
J J Nagar, Iynthupanai, Kadachanallur post  
Komarapalayam Taluk, Namakkal District.