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## K.KAMALAKKANNAN



### K.Kamalakkannan

Associate Professor

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(<mailto:prabhu.c@ktr.srmuniv.ac.in>)

**Affiliation:** Department of Automobile Engineering, Kattankulathur Campus, SRM Institute of Science and Technology (formerly known as SRM University)

Admission Enquiry

### Education

Ph.D	Vehicle Dynamics	Anna University, 2017
M.E	Engineering Design	Anna University, 2006
B.E	Automobile Engineering	Bharatiar University, Coimbatore,1993

### Other Details:

#### Courses

- Vehicle Dynamics
- Automotive Chassis
- Mechanical Vibration
- Vehicle Diagnostics

→ Finite Element Analysis

### Research Interests

- Vehicle Dynamics
- Mechanical Vibration
- Suspension Design and Development

### Selected Publications

International Journal

- "Optimization of front rail to improve the frontal crash performance RIP Vol 10, No 57(2015)
- "Input Advanced Control of Semi Active Half Car Heave Model" Journal of Mechanical Science and Technology, Springer, 27 (5) 1225-1231, 2013.
- "Improved Ride and Handling Characteristics of an ATV using Input Based Control with MR Damper" International Journal of Engineering Research & Technology, Malaysia Vol: 6, No 2, 110- 113, 2013.
- "Simulation Aspects of a Full Car ATV Model Semi Active Suspension", Scientific Research, Engineering, USA 4, 384-389, 2012.
- "Performance Analysis and Behaviour Characteristics of CVD (Semi Active) in Quarter Car Model" Jordan Journal of Mechanical and Industrial Engineering" Jordan, Volume: 5, June 2009

### Conferences/Seminars/Workshops Attended

- "Advanced handling model of a two axle vehicle with rigid suspension" International Conference on Mechanical Engineering Design, SSN College of Engineering, Chennai, 25th April 2016.
- "A study on weld distortions of a bus body side frame", International Conference on Electrical, Electronics, Computer Science & Mechanical Engineering(ICEECSME), at Chennai on 6th March 2016
- "Analysis of Magneto Rheological Fluid Using MR Damper in DTM" Contemporary Research in Advanced Material Science – CRAMS2016 , CRAMS 022
- "Dynamic analysis of half car full active suspension system Using Matlab/ Simulink and MSC ADAMS" CRAMS 098
- "Increasing Engine Efficiency and Decreasing Engine Emissions Using Varying Composition of Rice Bran Biodiesel in a Single Cylinder DI Diesel Engine", International Journal of Applied Engineering Research, Vol 10, Issue 13, pp. 11422 – 11427, (2015).
- "Simulation Prospective - Ride and Handling Characteristics of an ATV using MR Damper Input Control" 8th SAE International Mobility Conference & Exposition and Commercial Vehicle Engineering Congress 2013 – (SIMCOMVEC 2013) India – 2013-01-2863
- "Input Based Control of Full Car Model (ATV) Semi Active Suspension System-Simulation" SAE International Noise and Vibration Conference, Michigan, USA. 13NVC-01-1926, 2013.
- "Modelling and Analysis of Continuous Variable Damper in Quarter Car Model" ICRTIRES –Hindustan University, India 80 -85, 2011

### Academic Experience

- Associate Professor, Department of Automobile Engineering, SRM Institute of Science and Technology, Kattankulathur, July 2018- Till date.

- Professor, Department of Automobile Engineering, Hindustan Institute of Technology and Science, Chennai – 603103, Jan 2007– July 2018.
- Assistant Professor, Department of Automobile Engineering, SRM University, Kattankulathur, June 2007- June 2009
- Assistant Professor, Department of Automobile Engineering, Bharath University, Selaiyur, Chennai, Feb 2006 – Jan 2007.
- Professor, Department of Automobile Engineering, Hindustan College of Engineering, Chennai – 603103, July 2001 –Apr 2002

### Other Professional Experience

- Maintenance Engineer in Corporation of Hail, Kingdom of Saudi Arabia. August 1995- May 2001
- Graduate Apprentice - State Express Transport Corporation, Chennai. July 1994- June 1995
- Supervisor in Padmanaba Automobile Service Station, Tindivanam, June 1993- June 1994

### Awards & Achievements

- Esslingen University, Stuttgart, Germany supported Euro 1250/- to attend lecture Program (15 days) STIAE-Selected Topics in Automotive Engineering to attend Lecture Program –organized by Steinbeis Transformation 2016.
- John Deere Sponsored Rs.2.00 lakh to attend Lecture Program –on Off Highway Organized by Off-High Way Board of SAEINDIA, at Pune 2012.
- Management Committee member for SAE ISS –New initiative of SKIP (Student Knowledge Improvement Program)
- Coordination with SAEINDIA conducted various programs in University level as well as to various Institutions.
- Coordination with SAEINDIA conducted various programs in University level as well as to various Institutions.
- Guest Speaker for various programs in various Institutions
- Organizing member for SUPRA 2016
- Invited speaker in CII Green Technologies for Automotive sector August (2014)
- SAE Outstanding Faculty Advisor Award, SAE International, Detroit, USA 2018. (Received at SAE world Congress 2018)
- Ralph R Teetor Educational Award (Best Educator Award)-SAE International, USA April 2015. (Received at SAE World Congress 2015)
- Dronocharya (Best Faculty) Award-2012 BAJA India
- Special Award-2012 HITS
- Best Faculty Award- 2011 SAEINDIA Southern Section
- Research Promotion Award-2009 HITS

### Projects and Grants secured

- “Design and Development of Three Wheeler for Physically Challenged” Rs 6.00Lakh Granted by AICTE-RPS-C 2008, Project successfully completed and submitted on 2012.

**Patents:**

- "Development and Dynamic Analysis of a Semi Active Suspension System for an All-Terrain Vehicle Using Fuzzy Logic Control System" 5732/CHE/2014
- "Advance Overtaking Assistance System" 201641023075

**Professional Memberships**

- SAE International

**International Relations**

- International Advisory Board (/academics/international-advisory-board)
- Global Alliances (/aboutus/strategic-alliance)
- Foreign Faculty (/aboutus/panel-foreign-faculty)

**Going Abroad**

- Semester Abroad Program (/sap/)
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- Twining & Dual Degrees (/ir/ir/content/twining-transfer-degree)

**Get Placed**

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- Career Development Center (/placement/about-cdc)
- Corporate Advisory Board (/aboutus/corporate-advisory-board)
- Corporate Relations (/corporate-relations/)

**Insights**

- IQAC (/iqac/internal-quality-assurance-cell)
- Students Clubs (https://www.srmist.edu.in/soc/)
- My Choice SRM  
(https://webstor.srmist.edu.in/web\_assets/srm\_mainsite/files/downloads/mychoicesrm.pdf)
- SRM Video (https://webstor.srmist.edu.in/web\_assets/srm\_mainsite/files/new.html)
- Virtual Tour (/virtual/tour/Index.html)

[Spectrum \(/campus\\_connect/spectrum\)](/campus_connect/spectrum)

[Muthucharam Community Radio \(/muthucharam/\)](/muthucharam/)

[Researgence \(http://srmuniv.researgence.com/\)](http://srmuniv.researgence.com/)

[SRM Innovation and Incubation Center \(http://www.srmiic.com/\)](http://www.srmiic.com/)

## Downloads

[SRMJEEE 2020 Guide \(https://webstor.srmist.edu.in/web\\_assets/srm\\_mainsite/files/2019/guide-to-entrance-btech-2020.pdf\)](https://webstor.srmist.edu.in/web_assets/srm_mainsite/files/2019/guide-to-entrance-btech-2020.pdf)

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[Science and Humanities Info \(https://webstor.srmist.edu.in/web\\_assets/srm\\_mainsite/files/2016/science\\_humanities\\_info\\_2017.pdf\)](https://webstor.srmist.edu.in/web_assets/srm_mainsite/files/2016/science_humanities_info_2017.pdf)

[Hotel Management Info \(https://webstor.srmist.edu.in/web\\_assets/srm\\_mainsite/files/2016/hotel\\_mgmt\\_info\\_2017.pdf\)](https://webstor.srmist.edu.in/web_assets/srm_mainsite/files/2016/hotel_mgmt_info_2017.pdf)

[Agricultural Info \(https://webstor.srmist.edu.in/web\\_assets/srm\\_mainsite/files/2019/agricultural-science-info.pdf\)](https://webstor.srmist.edu.in/web_assets/srm_mainsite/files/2019/agricultural-science-info.pdf)

## Campuses

[Chennai Area - Kattankulathur \(\)](#)

[Chennai - Ramapuram \(https://ist.srmrmp.edu.in/\)](https://ist.srmrmp.edu.in/)

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Admission Enquiry

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