

St.Joseph's College of Engineering – Chennai 600119
Department of Mechanical Engineering
Faculty Information Sheet

Staff Name	:	Dr. L. Balamurugan
Faculty ID	:	TME31
Designation	:	Professor
Qualification	:	M.E, Ph.D
E- Mail ID	:	balaspostbox@gmail.com
Total Experience (Years)	:	16 Yrs and 1 Month
Teaching Experience (Years)	:	15 Yrs and 1 Month
Industrial Experience(Years)	:	1 Yr
Area of specialization	:	Vehicle suspension
Subjects handled in UG with Subject Code	:	Engineering Mechanics Fluid Mechanics and Machinery Design of Machine elements Dynamics of Machinery Applied Thermodynamics Engineering graphics
Department Responsibilities Held	:	Magazine Incharge Alumni Incharge
Journals published	:	<ul style="list-style-type: none"> • Balamurugan, L. and Jancirani, J. "A survey on semi-active suspension damper technologies and control strategies for vehicle ride comfort and drive stability", International Journal on Mechanical & Automobile Engineering, ISSN 0974-231X, IJMAE, March 2011- May 2011, Special Edition, Vol.14, No.01, pp.27-38, 2011. • Balamurugan, L. and Jancirani, J. "An investigation on

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semi-active suspension damper and control strategies for vehicle ride comfort and road holding", Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering. ISSN(Print): 0959-6518; SAGE Publication, Vol. 226, No.8, September 1, 2012.

- Balamurugan, L. and Jancirani, J. "Algebraic Modeling of a field-controllable Magnetorheological fluid damper", International Journal of Science and Engineering Applications, Edition, ISSN (Online), Vol.1, No.2, pp.2319-7560, December 2012
- Balamurugan, L. and Jancirani, J. "Application of a new modified parametric algebraic Magnetorheological Damper model in Vehicle Semi-active Suspension System", International Journal of Automobile Engineering Research and Development. ISSN(Online), pp.2278-9423, December, 2012.
- Balamurugan, L. and Jancirani, J. "Characterization of Magneto-rheological (MR) damper using Modified algebraic model", The International Journal of Mechanical Engineering and Research (IJMER), ISSN: 2249-0019, Vol.3, No.1, 2013.
- Balamurugan, L. and Jancirani, J. "Characterization of Magneto-rheological (MR) damper and its use in Semi-active control of Quarter car model" International Journal of Vehicle Noise and Vibration, Paper is scheduled for Vol 10 No. 1 (March 2014), Inderscience Publication.
- Balamurugan, L. and Jancirani, J. "Generalized magnetorheological (MR) damper model and its application in semi-active control of vehicle suspension system" International Journal of Automotive Technology 15 (3), 419-427(2014)
- Balamurugan, L., Sathishkumar, N., Arunkumar, N., & Aravind, G. (2017). Investigation of mechanical behaviour and surface roughness properties on electroplated FDM ABS parts. Int. J. Eng. Res. Mech. Civ. Eng., 2, 60-67.
- Balamurugan, L. Suresh.N "Mathematical Modelling of Two-

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		<p>Wheeler Suspension system in a wavy road”Published in International Journal of Innovative Technology and Exploring Engineering on September 10, 2019</p> <ul style="list-style-type: none"> • N.Sathishkumar, Naren Vivekanandan, Balamurugan, L, N Arunkumar, Ijaz Ahamed. “Mechanical Properties of Triply Periodic Minimal Surface based lattices made by Polyjet Printing.” Materials Today: Proceedings, 2020. 2934-2940.DOI: doi.org/10.1016/j.matpr.2020.03.427 • Sathishkumar, N., Arunkumar, N., Balamurugan, L., Sabarish, L., & Joseph, A. S. S. (2020). Investigation of Mechanical Behaviour and Surface Roughness Properties on Copper Electroplated FDM High Impact Polystyrene Parts. In Advances in Additive Manufacturing and Joining (pp. 287-300). Springer, Singapore. https://doi.org/10.1007/978-981-32-9433-2_25
International Conference Attended	:	<ul style="list-style-type: none"> • Balamurugan, L. and Jancirani, J. "Characterization of Magneto-rheological (MR) damper using Modified algebraic model" International Conference on WORLD CONGRESS on Frontiers of Mechanical, Aeronautical and Automobile Engineering (WCFMAAE-2013)to be held on 2nd -3rd February 2013 at Indian Institute of Technology, Delhi, New Delhi. • 7th International & 28th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2018), December 13-15, 2018 at College of Engineering - Guindy, Tamilnadu, India. • International Conference on Materials, Manufacturing and Modelling (ICMMM 2019), March 29-31, 2019 at VIT - Vellore, Tamilnadu, India.
National Conference Attended	:	<ul style="list-style-type: none"> • Balamurugan, L. "Prediction of shape deformation of passenger Aircraft wing using ANSYS" National Conference on Recent Trent's in Mechanical Engineering at Dharmapuri, Jayam College of Engineering and Technology.

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Faculty Development Programme Attended/ Workshops Attended	:	<ul style="list-style-type: none"> • Coordinator for Faculty development Programme on "Engineering Mechanics" Sponsored by Anna University, Chennai, conducted at St.Joseph's College of Engineering, Chennai during Dec 9 - 16, 2013. • Coordinator for Faculty development Programme on "Strength of materials" Sponsored by Anna University, Chennai, conducted at St.Joseph's College of Engineering, Chennai during June 10 -17, 2014. • Attended FDP on "Engineering Graphics" at Dr.Mahalingam College of Engineering and Technolgy, Pollachi during 29th May to 10th June 2006 • Attended FDP on "Modeling, Analysis and Control of vibration and Noise" at Mepco Schlenk Engineering College, Sivakasi during 21st Apr to 3rd May 2008 • Attended FDP on "Processing and Applications of Advanced Composite materials" at St.Joseph's College of Engineering, Chennai during 7th to 19th Nov 2011 • Attended Seminar on "Creativity and Innovation in new product Development" at Anna University, Chennai during 24th and 25th Apr 2009 • Attended Workshop on "Human Resource Development Intervention-FEEL Teacher" at Mahendra Engineering College, Namakkal during 16th June to 18th June 2006
NPTEL Courses Attended	:	<ul style="list-style-type: none"> • Fluid Mechanics – 8 Weeks <p style="text-align: center;">Course – IIT Guwahati - Elite</p>
No. of UG Projects Guided	:	25
No. of PG Projects Guided	:	05

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Online Webinars	<ul style="list-style-type: none">• Webinars Organized - 07• Webinars Attended – 15
Google Scholar Profile Link	https://scholar.google.com/citations?user=7kJBcnkAAAAJ&hl=en