

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

Staff Name	:	Dr. R. SELVAM
Faculty ID	:	TME20
Designation	:	PROFESSOR
Qualification	:	M.E., Ph.D.,
E- Mail ID	:	selvamr@stjosephs.ac.in
Total Experience (Years)	:	14
Teaching Experience (Years)	:	14
Industrial Experience(Years)	:	-
Area of specialization	:	Engineering Design
Subjects handled in UG with Subject Code	:	Strength of Materials Fluid Mechanics and Machinery Finite Element Analysis Engineering Graphics Engineering Metrology and Measurements Basic Civil and Mechanical Engineering
Subjects handled in PG with Subject Code	:	Polymers and Composite Materials Composite Materials and Mechanics
Department Responsibilities Held	:	Placement Coordinator
Journals published	:	1. <b>Selvam, R</b> , Karunamoorthy, L & Arunkumar, N 2020, ‘An investigation on machining characteristics in abrasive water jet machining of hybrid laminated composites with SiC nano particles’ Materials Today: Proceedings, doi.org/10.1016/j.matpr.2020.06.193

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

2. **Selvam, R**, Sathishkumar, N, Kumar, K, M, Arunkumar, N & Khaleelur Rahman, T 2020, 'Optimization of drilling parameters on hybrid natural fiber reinforced polymer matrix composites', IOP Conference Series: Materials Science and Engineering, vol. 923, doi:10.1088/1757-899X/923/1/012059
3. **Selvam, R**, Karunamoorthy, L & Arunkumar, N 2017, 'Investigation on performance of abrasive water jet in machining hybrid composites', Materials and Manufacturing Processes, vol. 32 no. 6 pp. , 700-706. DOI: 10.1080/10426914.2017.1198039
4. **Selvam, R**, Karunamoorthy, L & Arunkumar, N 2015, 'Experimental investigation and numerical analysis of the dynamic characteristics of a laminated hybrid composite bed', Polymer Composites, ISSN: 0272-8397, vol. 38, no. 1, pp. 20- 26. DOI 10.1002/pc.23555.
5. Prabu, R, Kumar, K, M, Maridurai, T & **Selvam, R**, 2018 'Optimization of Machining Parameters During Machining of Austenitic Stainless Steel 304 in Abrasive Water Jet Machine' International Journal of Mechanical and Production, ISSN:: 2249-8001, vol. 8 no. 3 pp. 1191- 1201.
6. Nagarajan, V, **Selvam, R** & Arunkumar, N, 2017 'Experimental Investigation and Optimization in Drilling of Hybrid FRP Laminated Composite' International Journal of Engineering Science and Computing, ISSN:: 2250-1371, vol. 7 no. 4 pp. 10476- 10480
7. **Selvam, R**, Karunamoorthy, L & Arunkumar, N 2015, 'Experimental and numerical investigation of the flexural properties of thick laminated hybrid composites', International Journal of Applied Engineering Research, ISSN: 0973-4562, vol. 10, no. 8, pp. 6011-6014.
8. **Selvam, R**, Arunkumar, N & Karunamoorthy, L 2014, 'Evaluation of flexural and interlaminar shear strength of laminated hybrid composites', Applied Mechanics and Materials, ISSN: 1660-9336,

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

vol. 592-594, pp. 276-281.  
 DOI:10.4028/www.scientific.net/AMM.592-594.276

International  
 Conference Attended

:

1. George Sahaya Nixon, **R, Selvam, R**, Ganesh, M, 'Optimization of Process Parameters on Friction Surfacing of ASI316 Over SG Iron', *International Conference on Technological Advancements in Materials, Design, Manufacturing and Energy Sectors*, 20<sup>th</sup> & 21<sup>st</sup> of February 2020, St. Joseph's College of Engineering, Chennai -119.
2. **Selvam, R**, Karunamoorthy, L & Arunkumar, N, 'An investigation on strength degradation of thick laminated hybrid composites under environmental impact', *International Conference on Advances in Mechanical Engineering*, 15<sup>th</sup> & 16<sup>th</sup> of October 2015, UCEV, Villupuram, Tamil Nadu, pp. 651-655.
3. Arunkumar, N, **Selvam, R**, Mukilan, G & Pradeep Kumar A, 'TiO<sub>2</sub> coating on 316l grade stainless steel using PVD to increase bio compatibility and corrosion resistance' *International Conference on Advances in Mechanical Engineering*, 15<sup>th</sup> & 16<sup>th</sup> of October 2015, UCEV, Villupuram, Tamil Nadu
4. Lavanya V, **Selvam R** & Arun Kumar N, 'Investigation of Mechanical Properties of Hybrid Natural Fiber Reinforced Polymer Matrix Composites', *International conference on science, technology, engineering & management*, 30<sup>th</sup>& 31<sup>st</sup> March 2016, Jeppiaar Engineering College, Chennai – 119.
5. Siva kumar, P, Roshan, RHV & **Selvam, R**, 'In-plane Shear response of Glass-Carbon/Epoxy laminated Hybrid Composites', *International Conference on Materials, Design and Manufacturing Process Feb 17<sup>th</sup> - 19<sup>th</sup>, 2016* at the Department of Mechanical Engineering, CEG, Anna University, Chennai - 25.
6. Siva kumar, P, Roshan, RHV, **Selvam, R** & Sathish, P, 'Fatigue Behavior of Glass-Carbon/Epoxy Laminated Hybrid Composites', *International Conference on Materials, Design and Manufacturing Process Feb 17<sup>th</sup> - 19<sup>th</sup>, 2016* at the Department of Mechanical

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

		Engineering, CEG, Anna University, Chennai - 25. 7. <b>Selvam, R</b> , Arunkumar, N & Karunamoorthy L, 'Flexural Behaviour of Thick Hybrid Laminated Composites', <i>International Conference on Advanced Research in Mechanical Engineering (ARME) June 16<sup>th</sup>, 2013</i> at Chennai, ISSN: 978-93-82208-97-6.
National Conference Attended	:	<ol style="list-style-type: none"> <li>1. Harikrishnan, P, <b>Selvam, R</b> &amp; Arun kumar, N, 'Machinability Study of Hybrid Composite Using Abrasive Water Jet Machining', National conference on advanced research and innovation in mechanical engineering (ARIME - 2016), April 22nd &amp;23rd 2016, KCG College of Technology, Chennai – 16.</li> <li>2. <b>Selvam, R</b>, Sasikumar, C, 'Mathematical model of surface profile with oval-round-oval pass sequence in Hot Steel Rolling Process' National conference on optimization techniques in Engineering Sciences &amp; Technologies (OPTTEST-2006), organized by Bannari Amman Institute of Technology, Sathyamangalam, during April 11-12, 2006.</li> <li>3. <b>Selvam, R</b>, Sasikumar, C, 'Finite Element Analysis and Mathematical model of surface profile with oval-round-oval pass sequence in Hot Steel Rolling Process', National Conference on The impact of information Technology and Manufacturing (NCIITM-2006) , organized by Kumaraguru College of Technology, Coimbatore, during March 24-25, 2006.</li> <li>4. <b>Selvam, R</b>, Sasikumar, C, 'Optimal Design of a Class of Weld Structure Using Genetic Algorithm', National Conference on Advances in Engineering design (AED-2005), organized by Bannari Amman Institute of Technology, Sathyamangalam, during April 29-30, 2005, pp 641-643.</li> </ol>
Faculty Development Programme Attended/ Workshops Attended	:	22
NPTEL Courses	:	1. Introduction to Composites

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

Attended		2. Manufacturing of Composites Certificate
Professional Membership	:	-
Funded project details	:	-
Patent details	:	-
No. of UG Projects Guided	:	25
No. of PG Projects Guided	:	08
Ph. D. Guidance	:	Guiding Three Ph. D. Scholars with Anna University Chennai in the field of Composite materials and Friction Welding.
Google Scholar Profile	:	<a href="https://scholar.google.co.in/citations?user=5u5FkX4AAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=5u5FkX4AAAAJ&amp;hl=en</a>
Orcid Id	:	<a href="https://orcid.org/0000-0003-2038-8850">https://orcid.org/0000-0003-2038-8850</a>
Web of Science Researcher Id	:	ABC-9643-2020