Name	Mr.J.Immanuel Durai Raj
Designation	Assistant Professor
Contact details (Phone number & Official Mail ID)	+91 9442405280, immanueldurairajj@stjosephstechnology.ac.in
Date of birth	07.05.1974
Qualification:	M.Tech., (Ph.d)
Years of Experience:	Total of 28 Years
	Teaching: 19 years
	Industry: 9 years
	1.Robotics
	2.Principles of Management
	3.Metrology and Measurements
Subjects handled:	4.Design of Transmission systems
	5. Engineering Materials and Metallurgy
	6.Total quality Management
	7.Strength of Materials
	8.Fluid Mechanics and Machinery
	9.Engineering Graphics
	10.Hydraulics and Pneumatics
Area of research:	E-waste management
Guide ship Details:	-NA-
Research Guidance:	-NA-
Awards and Achievements(Journal editors):	-NA-

Journal Publication Details:	[1] Geethan, K., Jose, S., Kannan, S. A., & Immanuel Durai Raj, J.
Journal I ablication Details.	(2017). Nano coated lead free solders for sustainable electronic waste
	management. Brazilian Archives of Biology and Technology, 59
	[2] Prabhuram, T., Elilraja, D., Prathap Singh, S., & Immanuel Durai
	Raj, J (2020). Investigation of mechanical and chemical properties of
	the coir fiber and wood powder reinforced hybrid polymer
	composite. Trends in Manufacturing and Engineering Management:
	Select Proceedings of ICMechD 2019, 285-292.
	[3] Singh, S. P., Geethan, K. A. V., Elilraja, D., Prabhuram, T., &
	Immanuel Durai Raj, J (2020). Optimization of dry sliding wear
	performance of functionally graded Al6061/20% SiC metal matrix
	composite using Taguchi method. <i>Materials Today: Proceedings</i> , 22, 2824-2831
	2824-2831. [4] Prathap Singh, S., Prabhuram, T., Elilraja, D., & Immanuel
	<b>Durairaj, J</b> . (2022). Influence of Drilling Operation Variables on
	Surface Roughness and Thrust Force of Aluminium Reinforced with
	10% Al 2 O 3 Functionally Graded Metal Matrix Composite. In <i>Recent</i>
	Advances in Manufacturing, Automation, Design and Energy
	Technologies: Proceedings from ICoFT 2020 (pp. 65-73). Springer
	Singapore.
	[5] Sunderraj, D. A. J., Immanuel Durai Raj, J., Geethan, K. A. V.,
	Singh, S. P., & Narayanamoorthy, K. (2021, October). Study of
	tribological behavior of Al2024 by power metallurgy method. In AIP
	Conference Proceedings (Vol. 2395, No. 1, p. 040008). AIP Publishing
	LLC.
	[6] Prabhuram, T., Singh, S. P., <b>Immanuel Durai Raj, J.</b> , Elilraja, D., Das M. C. & Sundarrai D. A. L. (2022). Optimization of operation
	Das, M. C., & Sunderraj, D. A. J. (2022). Optimization of operation parameters in machining of functionally graded metal matrix composite
	using TOPSIS. <i>Materials Today: Proceedings</i> , 62, 429-433.
	[7] Aagashram, N., Raj, <b>Immanuel Durai Raj, J</b> , A. A. R., & Singh, S.
	P. (2022, November). CFDGAN: A generative adversarial network for
	flow approximation. In AIP Conference Proceedings (Vol. 2446, No. 1,
	p. 180036). AIP Publishing LLC.
	[8] Immanuel Durai Raj, J., Durairaj, R. B., Ananth, S. V., &
	Barmavatu, P. (2024). Experimental investigation of the effect of
	e- waste fillers on the mechanical properties of Kenaf woven fiber
	composites. Environmental Quality Management.
	[9] Vennila, C., Muralikrishnan, G., Malathi, G., Srinivasan, D. R., Peneth P. & Pai I. I. D. (2024). Designing and Performance Analysis
	Banoth, R., & Raj, J. I. D. (2024). Designing and Performance Analysis of a Concentrated Solar Power System in Cold Arid High DNI Area.
	International Journal of Intelligent Systems and Applications in
	Engineering, 12(2s), 475-486.
	[10] Immanuel Durai Raj, J., Durairaj, R. I. B., John Rajan, A., &
	Barmavatu, P. (2023). Effect of e-waste nanofillers on the mechanical,
	thermal, and wear properties of epoxy-blend sisal woven fiber-
	reinforced composites. Green Processing and Synthesis, 12(1),
	20230164.
	[11] Raj, J. I. D., Durairaj, R. B., Ananth, S. V., &
	Meenakshisundaram, N. (2023). Effect of e- waste materials as filler in
	the flax woven fiber reinforced polymer composite for a sustainable
	environment. Environmental Quality Management.

	NIT
<b>Book and Chapter Publications:</b>	NIL
2000 and Chapter I administrations.	

International Conference:	<ul> <li>[1] Presented a paper titled 'Characterization of Epoxy Resin Based Banana Fibre Reinforced Composite with Waste Cd Powder Filler' in ICoFT MADE 2022, National Institute of Technology Puducherry, Karaikal on December 14-16, 2022</li> <li>[2] Presented a paper titled 'Landfill Site selection by Multi criteria Decision making methods' in ICESSM2022, Rajalakshmi Engineering Collegel on 22.04.22 &amp;23.04.22</li> <li>[3] Presented a paper titled 'Generative adversarial networks for flow approximation of Air foil with Reynold's number increment' in ICRTBI20-153, St.Joseph's Institute of Technology. OMR, Chennai-119 on 23 &amp; 24TH JULY 2020</li> </ul>
National Conference:	NIL
Patent:	<ul> <li>[1] A patent was granted for the title 'VIBRATION AND SHOCK ARRESTING PAD FOR MACHINERY' on 11/01/2023</li> <li>[2] A patent was published in the title 'Influence of Nano floral particles on the mechanical behaviour of Polymer composites' on 04.02.2022</li> <li>[3] A patent was published in the title 'DESIGN OF CENTRIFUGAL PUMP IMPELLER/12-09, on 07.03.2022</li> <li>[4] A patent was published in the title ,'POWER GENERATING SWING IN TWO DIRECTIONAL USING OSCILLATOR BLOCK' on 17/03/2021</li> </ul>
FDP/Workshop/STTP attended:	<ol> <li>Attended a six days FDP on 'Futuristic Research in Mechanical Engineering' from 08th August to 13th August 2022 at SRM Institute of Science and Technology, Ramapuram Campus.</li> <li>Attended a six days FDP on 'Advances in Strength of Materials and Manufacturng Engineering' from 06.12.21 to 11.12.21at AMET- Academy of Maritime Education and Training</li> <li>Attended a 2 weeks FDP on 'Advances in Composite Materials, Manufacturing processes and optimization Techniques' from 01-06- 2021 to 14-06-2021at Academy of Maritime Education and Training</li> <li>Attended a 6 Ddays FDP on 'Modern material and Industrial Automation ' from 01-06-2020 to 07-06-2020 at Sri Sairam Institute of Technology.</li> <li>Attended a 14 Days FDP on 'The role of smart materials in Digital manufacturing and fourth Industrial revolution' from 10/10/2019 TO 23/10/19 at KCG College of Technology</li> </ol>
FDP/Workshop/STTP	nil
Conducted:	
Online Courses:	<ul> <li>Obtained certificates in NPTEL courses</li> <li>1. Ethics in Engineering</li> <li>2. Body language</li> <li>3. Product Design and Development</li> <li>4. E-Waste Management</li> <li>5. Design for Quality, Manufacturing and Assembly</li> </ul>

	6. Material science and Engineering
Funded Projects:	Nil
Consultancy work:	Nil
Professional Body Membership:	Membership in SAE, ISTE, IAE Eng