

BIO-DATA



1.	Name	Deepak Devasagayam		
2.	Designation	Assistant Professor		
3.	Contact Address	Mechanical Engg. Dept., FCRIIT, Vashi		
4.	Website	https://fcrit.ac.in/faculty/40/mr-deepak-devasagayam		
5.	Total Experience	18 years		
i.	Teaching	13.5 years		
ii.	Industrial	4.5 years		
6.	Qualifications			
		Exam Passed	Year	Institution/ University
		M. E.	2006	Old Dominion Univ, USA
		B. E.	2001	DMCOE, Airoli (Mumbai University)
	Branch/Specialization			
		Mechanical Engineering		
		Mechanical Engineering		
	Additional Qualification:			
7.	Employment Record			
		Institution	Year (From To)	Designation
		Fr. C. Rodrigues Institute of technology, Vashi	June 2011 – Till Date	Assistant Professor
		Martin Innovations, NC, USA	July 2007 - Dec 2010	Manufacturing Engineer
		Amadas Industries, VA, USA	September 2005 – May 2006	Engineering Intern
		Stihl Inc., VA, USA	March 2005 – June 2005	Engineering Intern
8.	Undergraduate / Postgraduate Teaching Experience and Subjects Taught			
	Subjects Taught at UG level			
		Sr. No.	Name of Subject	Semester
		1.	Environmental Studies	I
		2.	Production Process - I	III
		3.	Materials & Metallurgy	IV
		4.	Production Process – II	IV
		5.	Environmental Studies	V
		6.	Production Process – III	V
		7.	Design of Jigs & Fixtures	V
		8.	Press Tool Design	VI
		9.	Manufacturing, Planning and Control	VII
		10.	Operation Research	VII
		11.	Logistics & Supply Chain Management	VII
		12.	Product Design and Development	VIII

9.	Research Experience				
	Technical Collaboration / Lab Funding with Industries				
	Sr. No.	Name of the Funding Organization	Name of Project	Amount (Rs.)	Year
	1.	Tata Institute of Fundamental Research (TIFR), Mumbai	Design of Laser Wall System	Rs. 30000	2017-18
10.	Professional Societies Fellowship / Membership				
	<ol style="list-style-type: none"> 1. ISHRAE 2. IEI 3. IIW 				
11.	Achievements / Awards / Position				
	<ol style="list-style-type: none"> 1. "Design and Fabrication of Solar Water Purifier" 2014-15, Best Project award at Fr. CRIT, Vashi 2. "Design & Development of Laser Wall Systems" 2018-19 which was awarded First Prize in Mechanical Engineering Group (Degree) of IEI BLC Silver Jubilee Award, on 28th February, 2020 3. GATE 2024 – Mechanical Engineering Cleared (AIR 6791) 4. GATE 2024 – Production and Industrial Engineering Cleared (AIR 484) 				
12.	Projects guided in UG/PG level				
	<ol style="list-style-type: none"> 1. "Eco-Friendly Campus with Green Technology" 2011-12 2. "Data Acquisition System for Internal Combustion Engine" 2011-12 3. "Effects of Parameters on Oil content and Growth of Algae " 2012-13 4. "Design and Fabrication of Scissor Lift Trolley" 2012-13 5. "Design and Fabrication of Solar Water Purifier" 2014-15 6. "Design and Construction of Solar Powered Agricultural Pesticide Sprayer" 2014-15 7. "Design and Fabrication of Solar Desalinator" 2015-16 8. "Design and Fabrication of Keyway Cutting Fixture" 2015-16 9. "Automatic Drilling Machine" 2016-17 10. "Design and Fabrication of Laser Wall" 2017-18 11. "Design and Development of Laser Wall System" 2018-19 12. "Design and Fabrication of Fruit Sorting and Packaging Machine" 2019-20 13. "Design and Development of Thermal Battery Management System for Li ION Batteries" 2020-21 14. "Design and Development of Water Cleaning Hovercraft" 2020-21 15. "Design and Development of Solar Water Heating using Plastic Waste" 2020-21 16. "Simulation of Manufacturing Process of a Cupboard" 2021-22 17. "Design and Development of Solar Panel Cleaning Robot" 2021-22 18. "Toothpaste Refilling Device" 2021-22 19. "Autonomous Mobile CNC Robot for Plasma Cutting" 2021-22 20. "Road Divider Cleaner" 2022-23 21. "Design and Development of Thermal Battery Management System Using Liquid Cooling Method" 2022-23 22. "Design and Fabrication of Underwater Drone for Cargo Transportation" 2022-23 23. "Design and Development of App for Fastener Recognition" 2023-24 24. "Design and Development of Autonomous Underwater Vehicle for Cargo Transportation" 2023-24 				
13.	Short Term Training Programmes organized / attended				
	<ol style="list-style-type: none"> 1. "Simulation of Manufacturing Systems" at Fr. CRCE, Bandra, held on 13 -14 March, 2015 2. "Digital manufacturing using DELMIA" in collaboration with Tata Technologies, at SPCE Andheri (W), held on 23- 28 May 2016 3. Organized "MEMS & Mechatronics STTP" at Fr. C. Rodrigues Institute of Technology, Vashi, held on Jan 2nd to 7th, 2018 4. "Additive Manufacturing Digital Transformation" organized by 3D Engineering Automation LLP, Pune, held on 24 April 2020 5. "Advanced Material Characterization Techniques" organized by Department of Mechanical Engineering, Lendi Institute of Engineering & Technology, held on 28-30 May 2020 6. "Advanced Research Challenges in Materials Science" organized by Mechanical Department, Sri Vasavi Engineering College & JNTU, held on "1–6 June 2020. 7. Organized "Career in Project Management" at Fr. C. Rodrigues Institute of Technology, 				

	<p>Vashi, held on 14 June, 2020</p> <ol style="list-style-type: none"> 8. “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 14 June, 2021 to 18 June, 2021. 9. Yoga Session from October 13-20, 2022 held at FCRIT Vashi 10. IP Awareness/Training program under National Intellectual Property Awareness Mission India on January 06, 2023 held at FCRIT Vashi 11. NPTEL 2024 - Teaching & Learning (TL) Practices for Python Programming (8 Week FDP Course) January to June 2024 12. NPTEL 2024 - Welding Application Technology (8 Week FDP Course) Jul-Sep 2024 13. NPTEL 2024 - Introduction to Machine Learning (8 Week FDP Course) Jul-Sep 2024
14.	<p>List of Journal Papers Published</p> <ol style="list-style-type: none"> 1. Deepak Devasagayam (2014) “Solar Water Purifier”, International Journal of Innovative Research in Advanced Engineering (IJIRAE). 2. Deepak Devasagayam (2015) “Solar Energy Based Purification of Sea Water – A Detailed Review”, International Research Journal of Engineering and Technology (IRJET). 3. Deepak Devasagayam (2015) “Design and Construction of Solar Powered Agricultural Pesticide Sprayer”, International Journal of Innovations & Advancement in Computer Science (IJIACS). 4. Deepak Devasagayam (2016) “Solar Desalinator”, International Research Journal of Engineering and Technology (IRJET). 5. Deepak Devasagayam (2016) “Design and Fabrication of Keyway Cutting Fixture” International Research Journal of Engineering and Technology (IRJET). 6. Deepak Devasagayam (2017) “Design and Fabrication of Automatic Wood Drilling Machine”, International Journal of Engineering Technology Science and Research (IJETS) ISSN 2394 – 3386 Volume 4, Issue 4, April 2017
15.	<p>List of Papers Published in National and International Conferences</p> <ol style="list-style-type: none"> 1. Nilaj Deshmukh & Deepak Devasagayam (2012) “Data Acquisition System for Internal Combustion Engine” Proceedings of Third Biennial National Conference on Nascent Technologies (NCNTE) 2. Bipin Mashilkar & Deepak Devasagayam (2012) “Eco-Friendly Campus with Green Technology” Proceedings of Third Biennial National Conference on Nascent Technologies (NCNTE) 3. Deepak Devasagayam (2013) Effects of Parameters on Oil content and Growth of Algae International Conference on Advances & Futuristic Trends in Mechanical and Material Engineering 2013, at Punjab Technical University 4. Deepak Devasagayam (2017) “Design and Fabrication of Automatic Wood Drilling Machine” International Conference on Advanced Trends in Engineering (ICATE-2017) Sponsored by The Indian Society for Technical Education (ISTE) 5. Deepak Devasagayam (2018) “Design and Fabrication of Laser Wall System” International Conference on Frontiers in Engineering, Applied Sciences and Technology (FEAST 2018) April 27th & 28th, 2018 at NIT, Tiruchirappalli 6. Deepak Devasagayam (2018) “Design of Modular Multi-Junction PV Concentrator Array” International Conference on Frontiers in Engineering, Applied Sciences and Technology (FEAST 2018), April 27th & 28th, 2018 at NIT, Tiruchirappalli 7. Deepak Devasagayam (2019) "Design, Fabrication & Testing of Cooling System for Multi-Junction CPV Cells," 2019 International Conference on Nascent Technologies in Engineering (ICNTE - 2019), January 4-5, 2019, at FCRIT, Vashi, Navi Mumbai, India, 2019, pp. 1-7 8. Deepak Devasagayam (2019) “Design & Development of Laser Wall System”, 2019, 6th International Conference On Production and Industrial Engineering (CPIE-2019), at Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, INDIA, 8-10 June 2019 9. Deepak Devasagayam (2019) “Design & Development of Fruit Sorting and Packaging Machine”, 2019, 5th International Conference on Industrial Engineering (ICIE-2019) At: Surat NIT, 12-14 Dec 2019, pp 875-879 10. Deepak Devasagayam (2022), “Analysis of Thermal Battery Management Systems for Lithium-Ion Battery Cell”, 20th ISME Conference on Advances in Mechanical Engineering, IIT Ropar Punjab, 19th- 21st May 2022, pp 458-463

	<ol style="list-style-type: none"> 11. Deepak Devasagayam (2023), “Development of a Portable Rapid Prototyping Machine Based on Fused Deposition Modeling Process”, 7th International Conference on Production and Industrial Engineering (CPIE-2023), Dr. B R Ambedkar National Institute of Technology Jalandhar, March 10-12, 2023 pp 43 12. Deepak Devasagayam (2023), “Road Divider Cleaner”, 7th International Conference on Production and Industrial Engineering (CPIE-2023), Dr. B R Ambedkar National Institute of Technology Jalandhar, March 10-12, 2023 pp 129 13. Deepak Devasagayam (2023), “Solar Panel Cleaning Robot”, 5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE), FCRIT, January 20 – 21, 2023, pp 1 14. Deepak Devasagayam (2024), “Thermal Management of Battery System Using Liquid Cooling Method”, Proc. of International Conference on Mechanical Engineering & Technology (ICMET-2024), NIT Kurukshetra, Haryana, India, 1st to 3rd March, 2024. 15. Deepak Devasagayam (2024), “Design and Fabrication of Underwater Drone for Cargo Transportation”, Proc. of International Conference on Mechanical Engineering & Technology (ICMET-2024), NIT Kurukshetra, Haryana, India, 1st to 3rd March, 2024.
16.	<p>International Conference Technical Program Committee Member / Reviewer</p> <ol style="list-style-type: none"> 1. ICNTE 2019 – Reviewer, held on January 4-5, 2019 2. ICNTE 2021 – Reviewer, held on January 15-16, 2021 3. INVEST 2022 – Organizing Committee, held on December 9 -10, 2022
17.	<p>Patents</p> <ol style="list-style-type: none"> 1. Convertible wheelchair having removable side frames, United States US 8196950 B2, Issued June 2012 2. Examination table, United States 7774873, Issued August 2010 3. Patient examination system US7665166 B2, United States US7665166 B2, Issued June 2006 4. Toothpaste Refiller India Patent Published – 23 Feb 2022, Application No. 202221009678