



<b>Research Grants:</b>					
Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
<b>Technical Collaboration / Lab Funding with Industries</b>					
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	
<b>11.</b>	<b>Professional Societies Fellowship / Membership</b> 1. ISHRAE 2. IEI				
<b>12.</b>	<b>Achievements / Awards / Position</b> 1. "Design and Fabrication of Solar Water Purifier" 2014-15, <b>Best Project</b> award at Fr.CRIT, Vashi 2. "Design & Development of Laser Wall Systems" 2018-19 which was awarded <b>First Prize</b> in Mechanical Engineering Group (Degree) of IEI BLC Silver Jubilee Award, on 28 <sup>th</sup> February, 2020				
<b>13.</b>	<b>Projects guided in UG/PG level</b> 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				
<b>14.</b>	<b>Short Term Training Programmes organized / attended</b> 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 2 <sup>nd</sup> to 7 <sup>th</sup> , 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, Vashi, held on 14 June, 2020 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.				
<b>15.</b>	<b>List of Journal Papers Published</b>				

	<ol style="list-style-type: none"> <li>1. Deepak Devasagayam (2014) “Solar Water Purifier”, International Journal of Innovative Research in Advanced Engineering (IJIRAE).</li> <li>2. Deepak Devasagayam (2015) “Solar Energy Based Purification of Sea Water – A Detailed Review”, International Research Journal of Engineering and Technology (IRJET).</li> <li>3. Deepak Devasagayam (2015) “Design and Construction of Solar Powered Agricultural Pesticide Sprayer”, International Journal of Innovations &amp; Advancement in Computer Science (IJIACS).</li> <li>4. Deepak Devasagayam (2016) “Solar Desalinator”, International Research Journal of Engineering and Technology (IRJET).</li> <li>5. Deepak Devasagayam (2016) “Design and Fabrication of Keyway Cutting Fixture” International Research Journal of Engineering and Technology (IRJET).</li> <li>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</li> </ol>
<b>16.</b>	<p><b>List of Papers Published in National and International Conferences</b></p> <ol style="list-style-type: none"> <li>1. Nilaj Deshmukh &amp; Deepak Devasagayam (2012) “Data Acquisition System for Internal Combustion Engine” Proceedings of Third Biennial National Conference on Nascent Technologies (NCNTE)</li> <li>2. Bipin Mashilkar &amp; Deepak Devasagayam (2012) “Eco-Friendly Campus with Green Technology” Proceedings of Third Biennial National Conference on Nascent Technologies (NCNTE)</li> <li>3. Deepak Devasagayam (2013) Effects of Parameters on Oil content and Growth of Algae International Conference on Advances &amp; Futuristic Trends in Mechanical and Material Engineering 2013, at Punjab Technical University</li> <li>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)</li> <li>5. Deepak Devasagayam (2018) “Design and Fabrication of Laser Wall System” International Conference on Frontiers in Engineering, Applied Sciences and Technology (FEAST 2018) April 27<sup>th</sup> &amp; 28<sup>th</sup>, 2018 at NIT, Tiruchirappalli</li> <li>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 27<sup>th</sup> &amp; 28<sup>th</sup>, 2018 at NIT, Tiruchirappalli</li> <li>7. Deepak Devasagayam (2019) "Design, Fabrication &amp; 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</li> <li>8. Deepak Devasagayam (2019) “Design &amp; 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</li> <li>9. Deepak Devasagayam (2019) “Design &amp; 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</li> </ol>
<b>17.</b>	<b>Books/Reports/General articles etc.</b>
<b>18.</b>	<b>Invited Lectures in FDP/ STTP</b>
<b>19.</b>	<p><b>International Conference Technical Program Committee Member / Reviewer</b></p> <ol style="list-style-type: none"> <li>1. ICNTE 2019 – Reviewer, held on January 4-5, 2019</li> <li>2. ICNTE 2021 – Reviewer, held on January 15-16, 2021</li> </ol>
<b>20.</b>	<p><b>Patents</b></p> <ol style="list-style-type: none"> <li>1. Convertible wheelchair having removable side frames, United States US 8196950 B2, Issued June 2012</li> <li>2. Examination table, United States 7774873, Issued August 2010</li> <li>3. Patient examination system US7665166 B2, United States US7665166 B2, Issued June 2006</li> <li>4. Toothpaste Refiller India Patent Filed – 23 Feb 2022, Application No. 202221009678</li> </ol>