

## BIO DATA



Name : Dr.J.JEROLD JOHN BRITTO

Designation : Associate Professor (Gr. II)

Department : MECHANICAL ENGINEERING

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### 1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Mechanical	Mepco Schlenk Engineering College, Sivakasi	2010
M.E	CAD/CAM	Mepco Schlenk Engineering College, Sivakasi	2013
Ph.D	Polymer Composite	Anna University, Chennai	2023

### 2. Professional/ Industry Experience

: (in chronological order)

S. No	Designation	Institution/ Organization	Period	
			From	To
1.	Associate Professor (Grade II )	Ramco Institute of Technology, Rajapalayam	01.04.2024	Till date
2.	Associate Professor (Grade I )	Ramco Institute of Technology, Rajapalayam	01.02.2024	30.03.2024
3.	Assistant Professor (Senior Gr.)	Ramco Institute of Technology, Rajapalayam	01.07.2018	31.01.2024
4.	Assistant Professor	Ramco Institute of Technology, Rajapalayam	02.06.2014	30.06.2018
5.	Assistant Professor	P.S.R. engineering college, Sivakasi.	10.06.2013	23.05.2014

6.	Lecturer	S. Veerasamy Chettiar College Of Engineering And Technology, Puliangudi.	01.07.2010	30.08.2011
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### 3. Research Interest

- Composite Materials
- Condition monitoring
- Finite Element Simulation
- Additive Manufacturing

### 4 Publications

#### 4.1 JOURNAL PUBLICATIONS

1. **Jerold John Britto J**, P. Ramachandran, and S. Paulraj, “Experimental investigation of mechanical and thermal properties of polycarbonate (PC) and carbon-fiber reinforced ABS (CFR-ABS) composites fabricated by fused filament fabrication (FFF),” *Journal of Reinforced Plastics and Composites*, vol. 58, no. 3, 2026, doi: 10.1177/00952443261424271. (SCIE, IF=2.3, Q2)
2. **Jerold John Britto J.**, Vasanthanathan, A., Krishnasamy, S. et al. Mechanical property study of 3D printed honeycomb structures with carbon fiber reinforcement: a finite element analysis and experimental approach. *Discover Materials* 5, 104 (2025). <https://doi.org/10.1007/s43939-025-00285-9>. (ESCI, Scopus)
3. K. Thirumoorthy, **Jerold John Britto**, and R. R. V. Raj, “A feature selection framework using an elitist quasi-opposition self-adaptive partial reinforcement optimization algorithm for breast cancer detection in mammograms,” *Applied Soft Computing*, vol. 183, p. 113713, 2025, doi: 10.1016/j.asoc.2025.113713.( SCIE, Q1, JIF ≈ 6.6)
4. Prabhakaran, R., Pitchipoo, P., Rajakarunakaran, S., & **Jerold John Britto, J.** (2025). Mechanical and dynamic characterization of additively manufactured carbon-reinforced polyethylene terephthalate glycol (PETG) composites. *Materials Research Express*, 12(5), 055304. <https://doi.org/10.1088/2053-1591/add464> (Q2, SCIE, IF=2.2)
5. P. Ramachandran, P. Pandian, V. Ramamoorthi, and **Jerold John Britto J**, “Influence of process parameters on the mechanical properties of carbon fibre reinforced PETG,” *Mechanics of Advanced Composite Structures*, vol. 13, no. 1, pp. 171–184, 2026, doi: 10.22075/mac.2025.36494.1791. (SCIE, Q2)
6. Thirumoorthy Karpagalingam, **J. Jerold John Britto**, S. K. Manasa (2024). “Depression Detection in Social Media Text Using Machine Learning Techniques”, *Healthcare-Driven Intelligent Computing Paradigms to Secure Futuristic Smart Cities* (1st ed.). Chapman and Hall/CRC. <https://doi.org/10.1201/9781032631738> (Scopus)
7. S. M. KENNEDY, G. R. RAGHAV, **J. JERODL JOHN BRITTO**, and K. AMUDHAN, “MORPHOLOGICAL INSIGHTS OF CARBON NANOMATERIALS USING ATOMIC FORCE MICROSCOPY AND THEIR APPLICATIONS,” *Surface Review and Letters*, Jan. 2025, doi: <https://doi.org/10.1142/s0218625x25300096>. (Q3, IF:0.304 SCIE)
8. **J. Jerold John Britto**, Vasanthanathan A, Karthik Vinayaga K, Senthil Maharaj P. S. R. “SMART PIEZO-ENABLED GLASS-FABRIC-REINFORCED COMPOSITE

STRUCTURE: EXPERIMENTS and FINITE-ELEMENT MODELING.” *Materiali in Tehnologije*, vol. 58, no. 6, 5 Dec. 2024, <https://doi.org/10.17222/mit.2024.1269>. Accessed 8 Jan. 2025. (Q3, IF:0.3 SCIE)

9. K. Thirumoorthy and **Jerold John Britto J**, “A two-stage feature selection approach using hybrid elitist self-adaptive cat and mouse based optimization algorithm for document classification,” *Expert Systems with Applications*, vol. 254, p. 124396, Nov. 2024, doi: [10.1016/j.eswa.2024.124396](https://doi.org/10.1016/j.eswa.2024.124396). (Q1,IF:7.5, SCIE).
10. R, Venkatesh, V Anbumalar S, Rajakarunakaran, **J Jerold John Britto** “Optimizing machining efficiency: a comprehensive study on PVD cathodic arc evaporation coated turning tool inserts with TiAlN/AlCrN multilayer coatings,” *Mater. Res. Express*, vol. 11, no. 6, p. 066505, Jun. 2024, doi: [10.1088/2053-1591/ad507e](https://doi.org/10.1088/2053-1591/ad507e). (Q2,IF:1.8, SCIE)
11. **Jerold John Britto J**, Arunachalam V, Krishnasamy S, Mavinkere Rangappa S, Siengchin S. “A correlation study on piezo-embedded carbon fibre reinforced polylactic acid composite: Experimental and numerical modelling” *Journal of Thermoplastic Composite Materials*. 2024;37(10):3340-3368. doi:10.1177/08927057241231715. (Q2,IF:3.6, SCIE)
12. K. Thirumoorthy and **Jerold John Britto J**, “A two-stage feature selection approach using hybrid quasi-opposition self-adaptive coati optimization algorithm for breast cancer classification,” *Applied Soft Computing*, vol. 146, pp. 110704–110704, Oct. 2023, doi: <https://doi.org/10.1016/j.asoc.2023.110704>. (Q1,IF:8.7, SCIE)
13. K. Thirumoorthy and **Jerold John Britto J**, “A feature selection model for document classification using Tom and Jerry Optimization algorithm,” *Multimedia Tools and Applications*, Jun. 2023, doi: <https://doi.org/10.1007/s11042-023-15828-6>. (Q1,IF:3.6,SCIE)
14. K. Thirumoorthy and **Jerold John Britto J**, “A Hybrid Approach for Text Summarization Using Social Mimic Optimization Algorithm,” *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*, vol. 47, no. 2, pp. 677–693, Nov. 2022, doi: <https://doi.org/10.1007/s40998-022-00572-8>. (Q2,IF:2.4, SCIE)
15. K. Thirumoorthy and **Jerold John Britto J**, “A clustering approach for software defect prediction using hybrid social mimic optimization algorithm,” *Computing*, Jul. 2022, doi: <https://doi.org/10.1007/s00607-022-01100-6>. (Q2,IF:3.7, SCIE)
16. K. Thirumoorthy and **Jerold John Britto J**, “A feature selection model for software defect prediction using binary Rao optimization algorithm,” *Applied Soft Computing*, vol. 131, p. 109737, Dec. 2022, doi: <https://doi.org/10.1016/j.asoc.2022.109737>. (Q1,IF:8.7, SCIE).
17. **Jerold John Britto J** and A. Vasanthanathan, “Smart Piezo-bonded carbon fibre/epoxy composite structure: experiments and finite element simulation,” *Materials research express*, vol. 9, no. 4, pp. 045702–045702, Apr. 2022, doi: <https://doi.org/10.1088/2053-1591/ac6169>. (Q2,IF:2.3, SCIE)
18. **Jerold John Brtito J**, A. Vasanthanathan, and S. Rajakarunakaran, “Condition monitoring on piezoceramic embedded composite beam under Finite Element Simulation using COMSOL®,” *World Review of Science, Technology and Sustainable Development*, vol. 19, no. 3, pp. 255–265, Jan. 2023, doi: <https://doi.org/10.1504/wrstd.2023.131928>. (Q3,IF: 1.3, ESCI).
19. K, Thirumoorthy, **J, Jerold John Britto**, R, Haripriya, N, Shreenee “Rumor detection using BERT-based social circle and interaction network model,” *Social Network Analysis and*

- Mining.*, vol. 14, no. 1, p. 195, Sep. 2024, doi: 10.1007/s13278-024-01362-2. **(Q1,IF:2.3, ESCI)**.
20. Ramachandran, Prabhakaran,; Pandian, Pitchipoo; Antony, **Jerold John Britto John Peter.** ” Investigation and Optimization of Thermoplastic Material by Fused Deposition Modeling”, *International Journal of Vehicle Structures & Systems*; Chennai Vol. 15, Iss. 4, (2023): 559-561. DOI:10.4273/ijvss.15.4.20. **(Scopus)**
  21. R. Venkatesh, **J. Jerold John Britto**, K. Amudhan, V. Anbumalar, R. Prabhakaran, and R. Thiyanesh Sakthi, “Experimental investigation of mechanical properties on CF reinforced PLA, ABS and Nylon composite part,” *Materials Today: Proceedings*, vol. 76, pp. 647–653, 2023, doi: <https://doi.org/10.1016/j.matpr.2022.12.091>. **(Q2, IF:2.59, Scopus)**.
  22. S. Balakrishnan, K. Senthilkumar, V. Rajkumar, and **Jerold John Britto J**, “Proposal for Gemba-Kaizen Implementation to Enhance Efficiency in the Medium-Scale Bus Body Fabrication Industry,” *SAE technical papers on CD-ROM/SAE technical paper series*, Feb. 2024, doi: <https://doi.org/10.4271/2023-01-5132>. **(Scopus)**
  23. Kennedy, Senthil Maharaj, K, Amudhan, **J, Jerold John Britto**, V, Ezhilmaran, RB, Jeen Robert, “Transformative applications of additive manufacturing in biomedical engineering: bioprinting to surgical innovations,” *Journal of Medical Engineering & Technology*, vol. 48, no. 4, pp. 151–168, May 2024, doi: 10.1080/03091902.2024.2399017. **(Q3,IF:0.377, SCOPUS)**
  24. Prabhakaran, R., **Jerold John Britto, J.**, Venkatesh, R., Mukesh, G., Mohamedabrar, I. (2023). Experimental Investigation and Identifying the Suitable Process Parameters for Additively Manufactured PETG Material by Fused Deposition Modeling. In: Rajkumar, K., Jayamani, E., Ramkumar, P. (eds) *Recent Advances in Materials Technologies. Lecture Notes in Mechanical Engineering*. Springer, Singapore. [https://doi.org/10.1007/978-981-19-3895-5\\_44](https://doi.org/10.1007/978-981-19-3895-5_44) . **(Scopus)**.
  25. R. Venkatesh, S. Kathiravan, R. Prabhakaran, M. Ramar, **Jerold John Britto J**, and S. Rajakarunakaran, “Experimental Investigation on Machinability of Additive Manufactured PLA and PETG Polymers Under Dry Turning Process,” In: Rajkumar, K., Jayamani, E., Ramkumar, P. (eds) *Recent Advances in Materials Technologies. Lecture Notes in Mechanical Engineering*. Springer, Singapore. pp. 553–561, Sep. 2022, doi: [https://doi.org/10.1007/978-981-19-3895-5\\_45](https://doi.org/10.1007/978-981-19-3895-5_45). **(Scopus)**
  26. R. Venkatesh, R. Prabhakaran, **Jerold John Britto J**, A Amudhan, and G. Karan Kumar, “Evaluation of Hardness, Surface Roughness, and Impact Strength of Additive Manufactured Ultraviolet Resin-Based Polymer,” In: Rajkumar, K., Jayamani, E., Ramkumar, P. (eds) *Recent Advances in Materials Technologies. Lecture Notes in Mechanical Engineering*. Springer, Singapore. pp. 267–274, Sep. 2022, doi: [https://doi.org/10.1007/978-981-19-3895-5\\_21](https://doi.org/10.1007/978-981-19-3895-5_21). **(Scopus)**
  27. **Jerold John Britto J**, Venkatesh, R., K. Amudhan, A. Vasanthanathan, Narasimhan Gokulakrishnan and M. Manikandan (2021). Micromechanics study on FRP composite cylinder under finite element simulation COMSOL Multiphysics®. *Materials Today: Proceedings*, 45, pp.804–810. doi: <https://doi.org/10.1016/j.matpr.2020.02.813>. **(Q2,IF:2.59,Scopus)**
  28. **Jerold John Britto J.**, Venkatesh, R., Prabhakaran, R. and K. Amudhan (2021). Design optimization of biomedical stent under the influence of the radial pressure using

29. **Jerold John Britto J.**, Vasanthanathan, A. and Nagaraj, P. (2018). Finite Element Modeling and Simulation of Condition Monitoring on Composite Materials Using Piezoelectric Transducers - ANSYS®. *Materials Today: Proceedings*, 5(2), pp.6684–6691. doi: <https://doi.org/10.1016/j.matpr.2017.11.325>. (Q2,IF:2.59,Scopus)
30. **Jerold John Britto J.** and A. Vasanthanathan (2013). Performance evaluation of window air conditioner by incorporating evaporative cooling system on the condenser, 2013 International Conference on Energy Efficient Technologies for Sustainability, ICEETS, 2013, 2013, pp.796-801,6533487, doi: <https://doi.org/10.1109/iceets.2013.6533487>. (Scopus).
31. Muthukumar, Chandrasekar, Jusuarockiam, Naveen, Krishnasamy, Senthil kumar, T, Senthil Muthu Kumar, Jawaid, Mohammad, Ridwan, Ishak Mohd, Jerold John Britto J., “Role of characterization techniques in evaluating the material properties of nanoparticle-based polymer materials,” in *Polymer Nanocomposite-Based Smart Materials*, R. Bouhfid, A. el K. Qaiss, and M. B. T.-P. N.-B. S. M. Jawaid, Eds., Elsevier, 2020, pp. 21–39. doi: 10.1016/B978-0-08-103013-4.00002-9. (Scopus)
32. Chandrasekar Muthukumar, P.S. Venkatanarayanan, K. Senthilkumar, M. Kumar, Suchart Siengchin, and **Jerold John Britto J.**, “Computational modeling of biocomposites,” Elsevier eBooks, pp. 19–34, Jan. 2021, doi: <https://doi.org/10.1016/b978-0-12-821553-1.00012-0>. (Scopus)
33. Senthilkumar, K., Pulikkalparambil, H., Senthil Muthu Kumar, T., **Jerold John Britto, J.**, Parameswaranpillai, J., Siengchin, S., Karthikeyan, S. and Rajini, N. (2020). Free Vibration Analysis of Bamboo Fiber-Based Polymer Composite. *Bamboo Fiber Composites*, Part of the book series: Composites Science and Technology ((CST)) pp.97–110. doi: [https://doi.org/10.1007/978-981-15-8489-3\\_6](https://doi.org/10.1007/978-981-15-8489-3_6). (Book Chapter)
34. **Jerold John Britto J.**, A. Vasanthanathan, S. Rajakarunakaran and K. Vigneshwaran (2020). Numerical Simulation of Self-Expanded NitinolBased Shape Memory Alloy Stent. *Springer proceedings in energy*, pp.69–76. doi: [https://doi.org/10.1007/978-981-15-4638-9\\_6](https://doi.org/10.1007/978-981-15-4638-9_6). (Book Chapter)
35. **Jerold John Britto J.**, A. Vasanthanathan, S. Rajakarunakaran and Venkatesh, R. (2020). Validation and Verification of FRP Laminate Composite Material Characterization Under Numerical Simulation Using COMSOL Multiphysics®. *Springer proceedings in energy*, pp.141–161. doi: [https://doi.org/10.1007/978-981-15-4638-9\\_12](https://doi.org/10.1007/978-981-15-4638-9_12). (Book Chapter)
36. **Jerold John Britto J.**, A. Vasanthanathan, S. Rajakarunakaran and K. Amudhan (2020). Finite Element Simulation of Dynamic Behavior of FRP Laminate Composite Under Forced Vibration. *Springer proceedings in energy*, pp.93–104. doi: [https://doi.org/10.1007/978-981-15-4638-9\\_8](https://doi.org/10.1007/978-981-15-4638-9_8). (Book Chapter)
37. **Jerold John Britto J.**, A. Vasanthanathan, S. Rajakarunakaran and Prabhakaran, R. (2020). Numerical Simulation Study on Failure Prediction of FRP Laminate Composite Using COMSOL Multiphysics®. *Springer proceedings in energy*, pp.39–51. doi: [https://doi.org/10.1007/978-981-15-4638-9\\_4](https://doi.org/10.1007/978-981-15-4638-9_4). (Book Chapter)
38. **Jerold John Britto J.**, A. Vasanthanathan, S. Rajakarunakaran, M. Manikandan and Ramalingam, P. (2020). Numerical and Experimental Evaluation of Material Characterization on Glass Fiber/Epoxy Composite Material. *Springer proceedings in energy*, pp.185–195. doi: [https://doi.org/10.1007/978-981-15-4638-9\\_15](https://doi.org/10.1007/978-981-15-4638-9_15). (Book Chapter)

## 4.2 CONFERENCE PUBLICATIONS

1. M.Vinoth, J.Jabinth, V.Sivakumar & **J.Jerold John Britto** presented a paper titled “**IoT based Smart door-to-door segregation and prediction of solid waste collection system using LabVIEW and Google Firebase**” organised by Ramco Institute of Technology, Rajapalayam, AICTE Sponsored International Conference on Smart Technologies and Applications (ICSTA 2022) supported by DBT, NABARD & BAI, 11<sup>th</sup> & 12<sup>th</sup> March 2022.
2. R.Prabhakaran, R.Venkatesh, K.Amudhan & **J.Jerold John Britto** has presented a paper titled “**Intensive study on Additive Manufacturing for Biomedical Applications**”, organised by Ramco Institute of Technology, Rajapalayam, AICTE Sponsored International Conference on Smart Technologies and Applications (ICSTA 2022) supported by DBT, NABARD & BAI, 11<sup>th</sup> & 12<sup>th</sup> March 2022.
3. R.Prabhakaran, **J Jerold John Britto**, R Venkatesh, G Mukesh, and I Mohamedabrar have presented a paper titled, "**Experimental Investigation and Identifying The Suitable Process Parameters for Additively Manufactured PETG Material By Fused Deposition Modeling**" through online during our International Conference on Energy and Materials Technologies (ICEMT-2021) Organized by the department of Mechanical Engineering, SSNCE during Aug 20-21, 2021.
4. R.Venkatesh, R. Prabhakaran, **J. Jerold John Britto**, K.Amudhan, G.Karan Kumar has presented a paper titled “**Evaluation Of Hardness, Surface Roughness and Impact strength Of Ultra Violet Resin Based Polymer Under Digital Light Processing Technique**” through online during our International Conference on Energy and Materials Technologies (ICEMT-2021) Organized by the department of Mechanical Engineering, SSNCE during Aug 20-21, 2021.
5. **J Jerold John Britto**, A. Vasanthanathan, S. Rajakarunakaran, A. Leema Margret has presented a paper titled “**An Intrinsic Study on Piezoelectric Modeling in A Layered Shell Under Numerical Simulation Using COMSOL Multiphysics®**” through online during our International Conference on Energy and Materials Technologies (ICEMT-2021) Organized by the department of Mechanical Engineering, SSNCE during Aug 20-21, 2021.
6. R.Venkatesh, **J.Jerold John Britto**, R.Prabhakaran, K.Amudhan J presented a paper titled “**Computational Simulation on Elastoplastic Necking Behaviour with Non Linear Hardening of Metallic Materials Under Uniaxial Tensile Using Comsol®**” at International Web Conference on Smart Engineering Technologies – 2020 (IWCSET-2020) organized by Ramco Institute of Technology, Rajapalayam during 26-27 June, 2020.
7. **J. Jerold John Britto**, A.Vasanthanathan, and S.Rajakarunakaran, presented a paper on “**Computational Simulation on layered linear elastic CFRP Composite Material to predict ply failure using COMSOL**” in the International Web Conference on Smart Engineering Technologies 2020 (IWCSET-2020) by Ramco Institute of Technology during 26-27 June, 2020.
8. **J. Jerold John Britto**, N. Gokulakrishnan ,M. Manikandan, Dhanajayan, ” Finite Element Modeling And Simulation Of Cfrp /Glare Composite For Warship Hull Under Static And Dynamic Condition” ISTE Sponsored 6th International E-Conference on

Latest Trends in Science, Engineering and Technology, (ICLTSET'20) on April 13, 2020  
Organized by Karpagam Institute of Technology, Coimbatore.

9. **Jerold John Britto**, J., R. Venkatesh, K. Amudhan, A. Vasanthanathan, N. Gokulakrishnan, and M. Manikandan, "Micromechanics study on FRP composite cylinder under finite element simulation COMSOL Multiphysics®" International Conference on Advances in Materials Research – 2019 at Bannari Amman Institute of Technology, Sathyamangalam, TN on December 06&07, 2019.
10. **J. Jerold John Britto**, A.Vasanthanathan, "Experimental Analysis of Fiber Reinforced Plastic Structure with Bio Filler under Impact Load" in an International Conference on Sustainable Development, Kalasalingam Academy of Research and Education (KGC-2019), Kalasalingam Global Conference, Kalasalingam Academy of Research and Education on December 19,2020.
11. **J.Jerold John Britto**, R.Venkatesh, R.Prabhakaran, K.Amudhan, "Design Optimization of Biomedical Stent Under the Influence of the Radial Pressure using FEM", 2nd International Conference on Recent Trends in Metallurgy, Materials Science and Manufacturing (IMME19) 27 -28, December, 2019 at National Institute of Technology, Trichirapalli.
12. **Jerold John Britto** J, Amudhan K, Venkatesh R, Vasanthanathan A and Gokulakrishnan N, "Micromechanics Study On Frp Composite Cylinder Under Finite Element Simulation Comsol® Multiphysics", on International Conference On Advances In Materials Research (ICAMR – 2019) 06-07,2019 at Bannari Amman Institute of Technology, 2019,Sathyamangalam.
13. **J.Jerold John Britto**, A.Vasanthanathan,S.Rajakarunkaran," Condition Monitoring on Piezo Enabled Composite Beam Structure under Finite Element Simulation Using COMSOL®", International Conference on Sustainable Development in Energy and Environment(ICSDEE'19) 18 - 20 July 2019 at Kamaraj College of Engineering and Technology 2019, Virudhunagar
14. **J.Jerold John Britto**, A.Vasanthanathan,S.Rajakarunkaran," Numerical Simulation of Soot Build Up in a Diesel Filter System using Comsol Multiphysics®", International Conference on Sustainable Development in Energy and Environment(ICSDEE'19) 18 - 20 July 2019 at Kamaraj College of Engineering and Technology 2019, Virudhunagar.
15. **J.Jerold John Britto**, A.Vasanthanathan," Finite Element Simulation of Piezoelectric Embedded Smart Composite Beam using COMSOL®" A Two- day National Conference on Materials for Sustainable Development (NCMSD 2019), 11,12 January, 2019 at Ramco Institute of Technology, Rajapalayam.
16. **J.Jerold John Britto**, A.Vasanthanathan," Forecasting on Electricity Consumption and Demand in India", 6th International Conference on Business Analytics and Intelligence 2018 (ICBAI-2018), 20-22, December, 2018 at Indian Institute of Science, Bangalore.
17. **J.Jerold John Britto**, A.Vasanthanathan,S.Rajakarunakaran, "Finite Element Modeling and Simulation of Piezoelectric Embedded Composite Beam Under Dynamic Loading Condition Using COMSOL®" NAFEMS India Regional Conference on Engineering Modelling, Analysis, Simulation and 3D-Printing (NIRC-2018), 20 & 21, July, 2018 at NAFEMS, Bengaluru, Karnataka, India.
18. **J.Jerold John Britto**, A.Vasanthanathan, S.Rajakarunakaran , "Finite Element Modeling and Experimental Evaluation of GFRP Radius Rod for Automobile Component Under Static and Dynamic Loading Condition" in Third International

Conference on Advanced Manufacturing and Automation (INCAMA 2018) conducted by Kalasalingam University, Krishnankoil, April 05 & 06, 2018.

19. **J.Jerold John Britto**, A.Vasanthanathan Finite Element Modeling and Simulation of Condition Monitoring on Composite Materials using Piezoelectric Transducers - ANSYS® International Conference on Emerging Trends in Materials and Manufacturing Engineering IMME17, National Institute of Technology, Tiruchirappalli, 10 – 12, March, 2017
20. **J.Jerold John Britto**, A.Vasanthanathan, S.Rajakarunakaran Finite Element Modeling and Simulation of Composite Piezoelectric Transducer Cantilever Beam using Comsol® Multiphysics Tool. Indo-Brazil Bilateral Second International Conference on Advanced Materials and Processing Materiais Avancados e Processamento amp 17 , Kalasalingam University, Krisnankoil, 27 & 28, March, 2017.
21. **J.Jerold John Britto**, A.Vasanthanathan. P.Nagaraj ”Damage Detection of Cost Effective CRRP Composite Structure Using Fiber Optic Sensor Under Dynamic Load”, International Conference on “Productivity, Efficiency and Competitiveness in Design and Manufacturing” PECDM 2016, PSG College of Technology, Coimbatore, 7 – 6, January, 2016,
22. **J.Jerold John Britto**, A.Vasanthanathan ”Mechanical Behaviour of Composite Bike Crank under Static Loading Condition using Finite Element Simulation – ANSYS Workbench®” in National conference on Innovations in Engineering Science and Technology, Ramco Institute of Technology, Rajapalayam, 24 & 25, March, 2016.
23. **J.Jerold John Britto**, A.Vasanthanathan, S.Arumugarajan, G.Selvamani A.Sivaanantpandiyan and J.Subburam,”INVESTIGATION OF STRAIN MEASUREMENT ON GFRP SMART STRUCTURE BY USING EXPERIMENTAL AND SIMULATION TOOLS”, Second National Conference on Innovations in Engineering, Science and Technology (NCIEST-2017), Ramco Institute of Technology, Rajapalayam 6 & 7 , March, 2015
24. **J.Jerold John Britto**, A.Vasanthanathan ”Experimental Evaluation of Defect Identification in composite Structure using IR Thermography”, National Conference on Innovations in Engineering, Science & Technology, Ramco Institute of Technology, Rajapalayam 6 & 7 , March, 2015
25. **J.Jerold John Britto**, A.Vasanthanathan, “MODAL ANALYSIS OF CFRP AIRCRAFT WING STRUCTURE”, 2nd National Conference on Research & Advances in Mechanical Engineering (RAME’14), P.S.R. Engineering College, Tamil Nadu, India, March 28 & 29, 2014.
26. Vasanthanathan, A, Nagaraj, P & **Jerold John Britto J** 2014, „Finite Element Modeling and Simulation of CFRP Shells under Axial Impact using LS-DYNA®“, Proceedings of the 5th International Congress on Computational Mechanics and Simulation (ICCMS 2014), CSIR-SERC, 10-13 December 2014. [ISBN:978-981-09-1139-3 || doi:10.3850/978-981-09-1139-3 115]
27. **J.Jerold John Britto**, A.Vasanthanathan, ” Modal Analysis Of Cfrp Aircraft Wing Structure”, 2nd National Conference on Research & Advances in Mechanical Engineering (RAME’14), P.S.R. Engineering College, Tamil Nadu, India, March 28 & 29, 2014
28. **J.Jerold John Britto**, A.Vasanthanathan, P. Nagaraj, ” Structural Health Monitoring: Challenges In Aircraft Structure”, National Conference on Emerging Trends in Materials, Manufacturing & Design (ETMMD-2013), 07-08, May 2013.
29. **J.Jerold John Britto**, A.Vasanthanathan, ”Finite Element Modelling of CFRP Aircraft Wing Structure”, International Conference on Futuristic Innovations & Developments in

Civil Engineering (ICFiDCe'13), Mepco Schlenk Engineering College, Sivakasi, 18th – 20th April 2013.

30. **J. Jerold John Britto**, A.Vasanthanathan “Performance Evaluation of Window Air Conditioner by Incorporating Evaporative Cooling System on the Condenser”, International Conference on Energy Efficient Technologies for Sustainability (ICEETS-2013) , St. Xavier’s Catholic College of Engineering, Nagercoil on 10th -12th April 2013.
31. **J. Jerold John Britto**, A.Vasanthanathan “Experimental Performance of Indirect Evaporative Cooling method on the Condenser of Window-Air-Conditioner”, First National Conference on Research & Advances in Mechanical Engineering-RAME’13, P.S.R Engineering College, Sivakasi, March 1st & 2nd 2013.

#### 4.3 Book/Book chapter publications

1. **J. Jerold John Britto**, A. Vasanthanathan, S. Rajakarunakaran, R.Prabhakaran (2019), " Numerical Simulation Study on Failure Prediction of FRP Laminate Composite Using Comsol Multiphysics®" Springer Proceedings in Energy, Sustainable Development in Energy and Environment, select Proceedings of International Conference on Sustainable Development in Energy and Environment (ICSDEE'19), Print ISBN 978-981-15-4637-2, Online ISBN 978-981-15-4638-9 <https://doi.org/10.1007/978-981-15-4638-9>
2. **J. Jerold John Britto**, A. Vasanthanathan, S. Rajakarunakaran, K.Vigneshwaran (2019), "Numerical Simulation of Self Expanded Nitinol Based Shape Memory Alloy Stent" Springer Proceedings in Energy, Sustainable Development in Energy and Environment, select Proceedings of International Conference on Sustainable Development in Energy and Environment (ICSDEE'19), Print ISBN 978-981-15-4637-2, Online ISBN 978-981-15-4638-9 <https://doi.org/10.1007/978-981-15-4638-9>
3. **J. Jerold John Britto**, A. Vasanthanathan, S. Rajakarunakaran, K. Amudhan, "Finite Element Simulation of Dynamic Behaviour of FRP Laminate Composite Under Forced Vibration" Springer Proceedings in Energy, Sustainable Development in Energy and Environment, select Proceedings of International Conference on Sustainable Development in Energy and Environment (ICSDEE'19), Print ISBN 978-981-15-4637-2, Online ISBN 978-981-15-4638-9 <https://doi.org/10.1007/978-981-15-4638-9>
4. **J. Jerold John Britto**, A. Vasanthanathan, S. Rajakarunakaran, R.Venkatesh, "Validation and Verification of FRP Laminate Composite Material Characterization Under Numerical Simulation Using Comsol Multiphysics®" Springer Proceedings in Energy, Sustainable Development in Energy and Environment, select Proceedings of International Conference on Sustainable Development in Energy and Environment (ICSDEE'19), Print ISBN 978-981-15-4637-2, Online ISBN 978-981-15-4638-9 <https://doi.org/10.1007/978-981-15-4638-9>
5. **J. Jerold John Britto**, A.Vasanthanathan, S.Rajakarunakaran, M.Manikandan, P.Ari Ramalingam, "Numerical and Experimental Evaluation of Material Characterization on Glass Fiber/Epoxy Composite Material"Springer Proceedings in Energy, Sustainable Development in Energy and Environment, select Proceedings of International Conference on Sustainable Development in Energy and Environment (ICSDEE'19), Print ISBN 978-981-15-4637-2, Online ISBN 978-981-15-4638-9 <https://doi.org/10.1007/978-981-15-4638-9>.
6. K. Senthilkumar, Harikrishnan Pulikkalparambil, T. Senthil Muthu Kumar, **J. Jerold John Britto (2020)**, " Free Vibration Analysis of Bamboo Fiber-Based Polymer Composite" Bamboo Fiber Composites. Composites Science and Technology. Springer, Singapore. [https://doi.org/10.1007/978-981-15-8489-3\\_6](https://doi.org/10.1007/978-981-15-8489-3_6), Online ISBN : 978-981-15-8489-3,
7. Chandrasekar Muthukumara, , Naveen Jusuarockiamb, Senthil kumar Krishnasamy,

Senthil Muthu Kumar T, Mohammad Jawaid, Ishak Mohd Ridwanf, **Jerold John Britto** (2020), “Role of characterization techniques in evaluating the material properties of nanoparticle-based polymer materials” Series Title: Woodhead Publishing Series in Composites Science and Engineering, Book Title: Polymer Nanocomposite-Based Smart Materials from synthesis to Application, Woodhead Publishing is an imprint of Elsevier, ISBN: 978-0-08-103013-4 (print), ISBN: 978-0-08-103014-1 (online).

## 5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
Portable Squeezer for Lemon Juice Extraction	1,00,000/-	Unnat Bharat Abhiyan	1	1,00,000/-	Completed
TIFAN-2023 Inter Disciplinary, Multi vegetable transplanter	Rs.9,07,300	RIT	1 Year	Rs.9,07,300	Completed

## 6 Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status

## 7 Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl. No	Title of the event	Organized by	Date	
			From	To
1.	Recent Developments in Mechanical Engineering (RDME-2020)	Department of Mechanical Engineering, Kakatiya Institute of Technology & Sceince, Warangal, Telangana	07.07.2020	11.07.2020
2.	3D Printing and Design	NAVI MUMBAI AND B & R Automation Pvt. Ltd. Pune	15.06.2020	19.06.2020

Sl. No	Title of the event	Organized by	Date	
			From	To
3.	Modeling and Simulation using MATLAB	NITTTR, Chandigarh	18.05.2020	22.05.2020
4.	CAM using Fusion 360 (Online Live FDP)	ICT Academy Tamil Nadu	07.05.2020	13.05.2020
5.	Augmented Reality (AR) / Virtual Reality (VR)	National Institute of Technical Teachers Training and Research, Chandigarh	11.05.2020	15.05.2020
6.	Future AI Inspired by Customer Use Cases for AI-ML	ICT Academy, Tamil Nadu	09.04.2020	-
7.	Robotic Process Automation: Basics and Beyond	ICT Academy, Tamil Nadu	10.04.2020	-
8.	Introduction to VMWare Cloud	ICT Academy, Tamil Nadu	11.04.2020	-
9.	Additive Manufacturing in Academics	CoreEL Technologies and Stratasys	13.04.2020	-
10.	Accelerating Experimental Learning in Engineering	ICT Academy, Tamil Nadu	13.04.2020	-
11.	The Future of Making	ICT Academy, Tamil Nadu	14.04.2020	-
12.	Introduction to AI & ML	ICT Academy, Tamil Nadu	15.04.2020	-
13.	Digital Transformation in Enterprise	ICT Academy, Tamil Nadu	16.04.2020	-
14.	Pranayama and Asanas	Ramco Institute of Technology, Rajapalayam	30.06.2020	-
15.	Shat Karma	Ramco Institute of Technology, Rajapalayam	29.06.2020	-
16.	Introduction and Importance of Yoga	Ramco Institute of Technology, Rajapalayam	29.06.2020	-
17.	Importance of physical Exercise	Ramco Institute of Technology, Rajapalayam	30.06.2020	-

Sl. No	Title of the event	Organized by	Date	
			From	To
18.	Outcome Based Education Software	vmedulife software Sevices	11.06.2020	-
19.	Digital Transformation	Ramco Institute of Technology	03.06.2020	-
20.	Waste heat recovery with absorption heat transform	Ramco Institute of Technology	03.06.2020	-
21.	Energy Audit and management in Industrial Motors	Ramco Institute of Technology	02.06.2020	-
22.	Reflections on Globalization	Ramco Institute of Technology	01.06.2020	-
23.	Research Material and Reference Management using Zotero	Ramco Institute of Technology	29.05.2020	-
24.	What the best college teachers do	Ramco Institute of Technology	29.05.2020	-
25.	Industry 4.0 - 3D Printing & IOT	Ramco Institute of Technology	26.05.2020	-
26.	Industry 4.0 - AI & AR&VR	Ramco Institute of Technology	25.05.2020	-
27.	Future Topics in Mechanical Engineering	Ramco Institute of Technology	18.05.2020	22.05.2020
28.	The Future of Skills – Education, Employment & Entrepreneurship “Day 1 – Expert Sessions	ICT Academy, Tamil Nadu	11.05.2020	-
29.	Skycampus webinar on the theme The Future of Education, Employment & Entrepreneurship “Day 5 – Expert Sessions (90 mins)	ICT Academy, Tamil Nadu	08.05.2020	-
30.	Skycampus webinar on the theme The Future of Education, Employment & Entrepreneurship “Day 4 – Expert Sessions (90 mins)	ICT Academy, Tamil Nadu	07.05.2020	-
31.	Skycampus webinar on the theme The Future of Education, Employment & Entrepreneurship “Day 2 – Expert Sessions (90 mins)	ICT Academy, Tamil Nadu	05.05.2020	-
32.	Skycampus webinar on the theme The Future of Education, Employment & Entrepreneurship “Day 1 – Expert Sessions (90 mins)	ICT Academy, Tamil Nadu	04.05.2020	-

Sl. No	Title of the event	Organized by	Date	
			From	To
33.	Skycampus webinar on the theme THE FUTURE IS HERE NOW “Day 5 – Expert Sessions (90 mins)	ICT Academy, Tamil Nadu	01.05.2020	-
34.	Skycampus webinar on the theme THE FUTURE IS HERE NOW “Day 4 – Expert Sessions (90 mins)	ICT Academy, Tamil Nadu	30.04.2020	-
35.	Skycampus webinar on the theme THE FUTURE IS HERE NOW “Day 3 – Expert Sessions (90 mins)	ICT Academy, Tamil Nadu	29.04.2020	-
36.	Industry 4.0 -Curtain Raiser	SHAPEMIND TECHNOSERVE	28.04.2020	-
37.	Skycampus webinar on the theme THE FUTURE IS HERE NOW “Day 2 – Expert Sessions (90 mins)	ICT Academy, Tamil Nadu	28.04.2020	-
38.	Skycampus webinar on the theme THE FUTURE IS HERE NOW “Day 1 – Opening Key Note Sessions (90 mins)	ICT Academy, Tamil Nadu	27.04.2020	-
39.	Skycampus – webinar on the theme Leading in VUCA world “Day 5 – Expert Sessions (70 mins)	ICT Academy, Tamil Nadu	24.04.2020	-
40.	Skycampus – webinar on the theme Leading in VUCA world “Day 4 – Expert Sessions (70 mins)	ICT Academy, Tamil Nadu	23.04.2020	-
41.	Skycampus – webinar on the theme Leading in VUCA world “Day 3– Expert Sessions (70 mins)	ICT Academy, Tamil Nadu	22.04.2020	-
42.	Skycampus – webinar on the theme Leading in VUCA world “Day 2 – Expert Sessions (70 mins)	ICT Academy, Tamil Nadu	21.04.2020	-

Sl. No	Title of the event	Organized by	Date	
			From	To
43.	ATAL Academy Programme on “3D Printing and Design”	Kerala State Centre for Advanced Printing and Training (C-apt) and M E S college of Engineering, Kuttipuram	02.12.2019	06.12.2019
44.	ATAL Academy Programme on ‘Virtual Reality in Education’	Department of Humanities and Social Sciences, NIT Warangal.	09.11.2019	13.11.2019
45.	Two day National Level workshop on LabVIEW for Real Time Applications	Organized by Department of ECE, RIT, Rajapalayam	06.09.2019	07.09.2019
46.	TWO DAY WORKSHOP ON NVIDIA GPU, Kubernetes and ML Frameworks	RIT - Artificial Intelligence Research Centre Ramco Institute of Technology Rajapalayam - & NVIDIA Bennett Research Centre, Bennett University, Noida.	25.07.2019	26.07.2019
47.	Industrial Visit	Monarck Engineers, Kochi	20.07.19	21.07.19
48.	Real time modeling, Simulation and verification, Validation of Engineering Problems using CAE	RIT, Rajapalayam	10.06.19	14.06.19
49.	Five Day All India Workshop on Basics in Computational Fluid Dynamics	Mepco Schlenk Engineering College, Sivakasi.	28.05.2019	01.06.2019
50.	Short Term Training Programme on Smart Materials & Smart Structures: Theory, Applications & Computational Modelling	Mepco Schlenk Engineering College, Sivakasi.	06.05.2019 to	10.05.2019
51.	Elevation’s ANSYS Level-1 course (Training on ANSYS Workbench)	Elevation - Element Simulation Academy	01.05.19	30.06.19
52.	A Two- day National Conference on Materials for Sustainable Development (NCMSD 2019)	Ramco Institute of Technology	11.01.2019	12.01.2019

Sl. No	Title of the event	Organized by	Date	
			From	To
53.	Short term course on “Research and Development in Condition Monitoring of Rotating Machines”	Indian Institute of Technology, Indore, Madhya Pradesh	10.12.2018	12.12.2018
54.	Faculty Training on NX-CAD 12.0®	Ramco Institute of Technology, Rajapalyam	08.11.2018	17.11.2018
55.	Digit @ All Sangamam confluence of Technology & Consumer (ED Cell)	Madurai	13.10.2018	
56.	Ph.D - Seminar	Mepco Schlenk Engineering College, Sivakasi	04.10.2018	-
57.	Faculty Development Program on Product Design Engineering using Fusion 360®	ICT Academy of Tamil Nadu	27.08.2018	31.08.2018
58.	One Day Workshsop on “Emerging Trends in Automotive Sector”	Society of Automotive Engineers India, Southern Sector, Madurai Division , Madurai	24.08.2018	-
59.	NAFEMS India Regional Conference on Engineering Modelling, Analysis, Simulation and 3D-Printing (NIRC-2018)	NAFEMS, Bengaluru, Karnataka, India	20.07.2018	21.07.2018
60.	Workshop on Writing Research Papers, Citation Analysis, Plagiarism, Getting Patent & Copyright	RIT, Rajapalayam	29.06.18	30.06.18
61.	Industrial Visit	Ramco Cements, RR Nagar , Virudhunagar	11.06.18	13.06.18
62.	STTP on Composite Structures, Theory, Manufacturing, Mechanics & FE Modeling	Mepco Schlenk Engineering College, Sivakasi.	07.05.2018	11.05.2018
63.	Virtual Round E-BAJA Presentation	Chitkara University, Chandigarh, Punjab	11.07.2018	-
64.	Workshop on Writing Research Papers, Citation Analysis, Plagiarism, Getting Patent & Copyright	Ramco Institute of Technology, Rajapalyam	29.06.2018	30.06.2018
65.	NAFEMS Conference on Engineering Modeling, Analysis, Simulation & 3D Printing	The Chacery Pavilion, Bengaluru, India	20.07.2018	21.07.2018

Sl. No	Title of the event	Organized by	Date	
			From	To
66.	E-BAJA - Virtual BAJASAEINDIA 2019-2020	Chitkara University, Chandigarh, Punjab	12.07.2019	13.07.2019
67.	Industrial Visit	Dharani Sugars and Chemicals Limited, Vasudevanallur	12.06.2018	14.06.2018
68.	Five-Day Faculty Development Training Programme on Real Time Modeling, Simulation, Verification and Validation of Engineering Problems using CAE in Association with Design Tech & CAE Centre, Chennai.	Ramco Institute of Technology, Rajapalayam	10.06.2019	14.06.2019
69.	Faculty Development Training Programme on A Hands-on Training: Engineering Simulation using ABAQUS®	EDS Technologies Pvt Ltd, Coimbatore	15.06.2017	17.06.2017-
70.	SIMULIA Suite (Abaqus, Isight, TOSCO and Fe-Safe)	EDS Technologies, Coimbatore	01.12.2016	03.12.2016
71.	Systematic Research and Paper Writing	Kongu Engineering College, Erode	08.10.2016	08.10.2016
72.	Faculty Development Program 2016	CADD Centre, Madurai	24.09.2016	-
73.	Autodesk Inventor Certified User Exam	Ramco Institute of Technology, Rajapalayam in associated with ICT Academy Tamil Nadu	06.08.2016	06.08.2016
74.	Autodesk AutoCAD Certified User Exam	Ramco Institute of Technology, Rajapalayam in associated with ICT Academy Tamil Nadu	06.08.2016	06.08.2016
75.	Ansys Structural and Ansys CFD	Innovent Engineering Solutions Pvt Ltd, Bengaluru	22.06.2016	26.06.2016
76.	NI Lab View CLAD Training	Ramco Institute of Technology, Rajapalayam	20.06.2016	21.06.2016

Sl. No	Title of the event	Organized by	Date	
			From	To
77.	Mechanics and Modeling of Soft Materials	Indian Institute of Technology, Chennai	13.06.2016	19.06.2016
78.	Five Days Faculty Development Program on Digital Prototyping Using Inventor 2015 conducted by ICT Academy of Tamil Nadu	St. Xavier's College of Engineering, Nagercoil in associated with ICT Academy of Tamil Nadu	23.11.2015	27.11.2015
79.	Five Days Faculty Development Program on AutoCAD 2015 conducted by ICT Academy of Tamil Nadu	Ramco Institute of Technology, Rajapalayam in associated with ICT Academy of Tamil Nadu	12.10.2015	16.10.2015
80.	One Day Workshop on ABAQUS® FEA Software.	Mepco Schlenk Engineering College, Sivakasi	19.09.2015	19.09.2015
81.	One Day National Nodal Centre Conference on “Value Virtual Labs”	Amrita Vishwa Vidyapeetham, Vallikkavu, Kerala	09.09.2015	09.09.2015
82.	Two Day Workshop on e-Yantra Robotics Workshop.	Mepco Schlenk Engineering College, Sivakasi	29.06.2015	30.06.2015
83.	NI Lab VIEW Core 1 & Core 2 course.	Ramco Institute of Technology, Rajapalayam In associated with NI, Bengaluru	15.06.2015	19.06.2015
84.	Faculty Development Training Program on “Engineering Graphics”	Ramco Institute of Technology, Rajapalayam	09.06.2015	11.06.2015
85.	Short Term Training Program on “Fundamentals and Applications of FEA & CFD in Engineering”	Mepco Schlenk Engineering College, Sivakasi	01.06.2015	03.06.2015
86.	Comprehensive Training program on CNC Turning and Milling using MTAB equipment.	MTAB, Chennai	26.05.2015	31.05.2015
87.	Introspection of Teaching Learning Process	Ramco Institute of Technology, Rajapalayam	2 days	2014

Sl. No	Title of the event	Organized by	Date	
			From	To
88.	Short Term Training Programme on “Computer Aided Manufacturing & Coordinate Metrology” [CAMCOM-14]	Mepco Schlenk Engineering College, Sivakasi	3 days	2014
89.	Workshop on “ Intellectual Property Rights [IPR] Awareness Programme	Ramco Institute of Technology, Rajapalayam	1 day	2014
90.	Art of counseling	Ramco Institute of Technology, Rajapalayam	1 day	2014
91.	Two-Week ISTE Workshop on “Engineering Mechanics”,	IIT-Bombay held at Mepco Schlenk Engineering College	26.11.2013	06.12.2013
92.	Workshop on “Materia Outreach Program 2013”	IIT Bombay held at Kalasalingam University	04.03.2013	05.03.2013
93.	National level workshop on “Research Issues in Reinforced Materials”	RIM-13, Kalasalingam University	27.02.2013	-
94.	National Workshop on “How to Write Effective Research Papers for Conferences and Journals”	Kongu Engineering College, Perundurai, Erode	21.09.2013	-
95.	Five-day FACULTY EMPOWERMENT PROGRAM	P.S.R Engineering College, Sivakasi	10.07.2013	15.07.2013
96.	Workshop on “Genetic Algorithm and Particle Swarm Optimization: Hands on training using MATLAB”	Anna University, Regional Office-Coimbatore	18.10.2012	19.10.2012
97.	An International Techno Management Fest-Robotics Workshop	KRIYA conducted by PSG College of Technology Students Union, Coimbatore	25.11.2011	27.11.2011
98.	Two-Week ISTE WORKSHOP on “Thermodynamics in Mechanical Engineering”	IIT Bombay at Mepco Schlenk Engineering College	14.07.2011	24.07.2011
99.	One day Seminar on “Renewable Energy”	Einstein College of Engineering, Tirunelveli	22.10.2010	-

Sl. No	Title of the event	Organized by	Date	
			From	To
100.	One day National Seminar on “Role of Composite Materials in Mechanical Engineering”	Ultra College of Engineering & Technology for Women, Madurai	11.10.2010	-

**8. Short term Courses / Seminars /FDP/Workshop/Conference organized:**

Sl. No	Title of the event	Organized by	Date	
			From	To
1.	Three Day Training Programme on 3D Printing	Ramco Institute of Technology & Medsby Healthcare and Engineering Solutions.	19.09.2020	21.09.2020
2.	Three-day Training Programme on 3D Printing	Ramco Institute of Technology & Medsby Healthcare and Engineering Solutions.	13.02.2020	15.02.2020
3.	Orientation Programme on Geometric Dimensioning and Tolerancing	RIT, Rajapalayam	16.09.2019	-
4.	Orientation Programme in “3D Printing Technology and its Applications”	Medsby Health Care Engineering Solutions, Coimbatore at RIT, Rajapalayam	30.07.2019	-
5.	Student Interaction Programme on “Companion Learning Space” and placement orientation Programme	Harita Techserv Ltd, Coimbatore at RIT, Rajapalayam	26.07.2019	-
6.	Students Training Programme on Fusion 360®	RIT, Rajapalayam	09.07.2019	-
7.	Value Added Course on Smart Materials	RIT, Rajapalayam	06.07.2019	20.10.19
8.	Product Analysis using Ansys	RIT, Rajapalayam	23.05.2020	-
9.	Bharat IV/VI Stage Norms, Design Considerations and Roadmap to EV	RIT, Rajapalayam	16.05.2020	-
10.	3D Printing for Medical applications	RIT, Rajapalayam	15.05.2020	-
11.	Industry's expectations from students	RIT, Rajapalayam	15.05.2020	-
12.	Industrial Impact of CAD/CAM	RIT, Rajapalayam	14.05.2020	-
13.	Automotive Design Sculpting	RIT, Rajapalayam	13.05.2020	-

Sl. No	Title of the event	Organized by	Date	
			From	To
14.	Transport Design	RIT, Rajapalayam	07.02.2020	-
15.	3D Printing Training Programme	Medsby Health Care Engineering Solutions, Coimbatore at RIT, Rajapalayam	13.02.2020	15.02.2020
16.	Seminar on “Transport Design”	Rehoboth Academy of Design LLP, Rajapalayam	07.02.2020	-
17.	Design Optimization of Electric Bike	CDES Implementing Innovation, Coimbatore	06.02.2020	07.02.2020
18.	Electric Vehicle- the Future	Electric Vehicle- the Future, Rajapalayam	07.02.2020	-
19.	Three Day Faculty Development Programme on “Team Building”	ICT Academy of Tamil Nadu, Chennai at RIT, Rajapalayam	18.11.2019	20.11.2019
20.	3D Printing Training Programme	Medsby Health Care Engineering Solutions, Coimbatore at RIT, Rajapalayam	19.10.2019	21.10.2019
21.	Orientation Programme on Geometric Dimensioning and Tolerancing	RIT, Rajapalayam	16.09.2019	---
22.	CAD MODELKETA	RIT, Rajapalayam	31.08.2019	-
23.	IOT Applications in Engineering - Workshop	RIT, Rajapalayam	31.08.2019	-
24.	3D Drucken workshop	RIT, Rajapalayam	31.08.2019	-
25.	Student software Training Programme on “NX-CAD 12®”	Harita Techserv Ltd, Coimbatore at RIT, Rajapalayam	16.08.2019	21.09.2019
26.	Orientation Programme in “3D Printing Technology and its Applications”	Medsby Health Care Engineering Solutions, Coimbatore at RIT, Rajapalayam	30.07.2019	-
27.	Student Interaction Programme on “Companion Learning Space” and placement orientation Programme	Harita Techserv Ltd, Coimbatore at RIT, Rajapalayam	26.07.2019	-
28.	Students Training Programme on Fusion 360®	RIT, Rajapalayam	09.07.19	---
29.	Value Added Course on Smart Materials	RIT, Rajapalayam	06-07-19	20.10.19
30.	Five-Day Faculty Development Training Programme on Real Time	Ramco Institute of Technology, Rajapalayam	10.06.2019	14.06.2019

Sl. No	Title of the event	Organized by	Date	
			From	To
	Modeling, Simulation, Verification and Validation of Engineering Problems using CAE in Association with Design Tech & CAE Centre, Chennai.			
31.	A Five Day Mechanical CAD Modelling Software Training Programme for Polytechnic students	Ramco Institute of Technology, Rajapalayam	08.04.2019	12.04.2019
32.	Software Training on NX-CAD® for students.	Ramco Institute of Technology, Rajapalayam	24.01.2019	13.02.2019
33.	Student Interaction Programme on “Companion Learning Space and Placement Orientation Programme	Ramco Institute of Technology, Rajapalayam	09.01.2019	-
34.	Seminar on”E-Learning of CAD/CAM Tools”	Ramco Institute of Technology, Rajapalayam	28.12.2018	-
35.	Value Added Course on Autodesk Certified User in Fusion 360	Ramco Institute of Technology, Rajapalayam	17.12.2018	20.12.2018
36.	Faculty Training on NX-CAD 12.0®	Ramco Institute of Technology, Rajapalayam	08.11.2018	17.11.2018
37.	Faculty Development Program on Product Design Engineering using Fusion 360®	ICT Academy of Tamil Nadu	27.08.2018	31.08.2018
38.	Design Dominator Event – TechYuga 2018	Ramco Institute of Technology, Rajapalayam	17.08.2018	
39.	Value Added courses	Ramco Institute of Technology, Rajapalayam	21.05.2018	29.06.2018
40.	India Design Week Competition conducted by ICTACT	ICT Academy of Tamil Nadu	03.12.2017	04.12.2017
41.	Faculty Development Training Programme on A Hands on Training : Engineering Simulation using ABAQUS®	Ramco Institute of Technology, Rajapalayam In associated with EDS Technologies, Coimbatore	15.06.2017	17.06.2017
42.	Seven Day Faculty Development Training Programme on ME6603- Finite Element Analysis	Ramco Institute of Technology, Rajapalayam Approved by Anna University, Chennai	17.12.2016	23.12.2016

Sl. No	Title of the event	Organized by	Date	
			From	To
43.	Value Added Course on Autodesk Inventor 2016®	Ramco Institute of Technology, Rajapalayam	14.12.2016	16.12.2016
44.	Autodesk Fusion 360 Workshop	ICT Academy of Tamil Nadu	09.12.2016	07.01.2016
45.	Value Added Course for II and III year Students	Ramco Institute of Technology, Rajapalayam	30.11.2016	19.12.2016
46.	Emerging Trends and Opportunities in Computer Aided Design	CADD Centre, Rajapalayam	27.08.2016	27.08.2016
47.	Ansys Structural and Ansys CFD	Innovent Engineering Solutions Pvt Ltd, Bengaluru	22.06.2016	26.06.2016
48.	One day Workshop on A Hands on Training: Engineering Simulation using ANYS Workbench	Ramco Institute of Technology, Rajapalayam	20.08.2016	20.08.2016
49.	MasterCAD - Tech Yuga 2016	Ramco Institute of Technology, Rajapalayam	19.08.2016	19.08.2016
50.	SIMULIA Suite® (Abaqus, Isight, TOSCO and Fe-Safe)	EDS Technologies, Coimbatore	01.12.2016	03.12.2016
51.	CATIA V6 Training	Ramco Institute of Technology, Rajapalayam	03.11.2016	12.11.2016
52.	One Day Guest Lecture on “Finite Element Analysis - Two Dimensional Vector Variable Problems” for III-year Mechanical Engineering Students by an Expert Dr. S. Shankar, Associate Professor, Dept. of Mechatronics, Kongu Engineering, Perungudi.	Ramco Institute of Technology, Rajapalayam	26.03.2016	26.03.2016
53.	Value Added Course on International Certification Program Digital Prototyping using Autodesk Inventor 2015 for III year Mechanical Engineering Students.	Ramco Institute of Technology, Rajapalayam	28.11.2015	05.12.2015
54.	Faculty Development Training Program on AutoCAD 2015 conducted	ICT Academy of Tamil Nadu	12.10.2015	16.10.2015

Sl. No	Title of the event	Organized by	Date	
			From	To
55.	State Level Technical Symposium "TECHYUGA", - ROBO GP event.	Ramco Institute of Technology, Rajapalayam	29.08.2015	29.08.2015
56.	International certification programme on AutoCAD 2014	CADD Technologies, Coimbatore	04.12.2014	12.12.2014

## 9. Online Courses

S.No	Course title	University	Date
1.	Fundamentals of Additive Manufacturing Technologies	IIT Madras, NPTEL	12 weeks (Jul-Oct, 2023)
2.	Computer Integrated Manufacturing: From Concept to Implementation	IIT Kharagpur, NPTEL	12 weeks (Jan-Apr, 2026)
3.	Product Design and Manufacturing	IIT Kanpur, NPTEL	12 weeks (Jan-Apr, 2026)
4.	Manufacturing Guidelines for Product Design	IIT Roorkee, NPTEL	8 weeks (Jan-Mar, 2026)
5.	Design Practice	IIT Kanpur, NPTEL	8 weeks (Jan-Mar, 2026)
6.	Artificial Intelligence and Machine Learning in Materials Engineering	IIT Madras, NPTEL-AICTE FDP	12 Weeks (Jul-Oct 2025)
7.	Mobile Virtual Reality and Artificial Intelligence	IIT Madras, NPTEL-AICTE FDP	4 Weeks (Aug-Sep 2025)
8.	3D Printing of Auxetic Structures: Theory and Practices	SWAYAM / NITTTR Chandigarh	Jul-Dec 2025
9.	Meshmixer Essential Training	Linked in Learning	January, 2024
10.	Fundamentals of Additive Manufacturing Technologies	IIT Madras, NPTEL (12 weeks)	November, 2023
11.	Energy Literacy Training	Energy Swaraj Foundation, Coal India Limited	December, 2023
12.	Python for Mechanical Engineers	Udemy Platform	August, 2023
13.	Differential Equations for Engineers	The Hong Kong University of Science and Technology, Coursera	June, 2023
14.	Differential Equations: Fourier Series and Partial Differential Equations	Massachusetts Institute of Technology, EDX	May, 2023

15.	Diploma of Completion, Meet the UiPath Platform	Ui Path	May, 2023
16.	Diploma of Completion, Variables and Arguments in Studio	Ui Path	January, 2023
17.	Differential Equations: 2x2 Systems	Massachusetts Institute of Technology, EDX	24th Nov, 2021
18.	ABAQUS (Part-5)	Ali Nassser, Design Engineer, Udemy	May 2020
19.	ANSYS Workbench – Analysis Engineering Training Program	Academy of Engineering, Institute of Expert Training Programs, Udemy	April 2020
20.	Introduction to Goolge Docs	Freedom Learning Group, Coursera	June 13, 2020
21.	Introduction to Differential Equations	Massachusetts Institute of Technology, EDX	December 2019
22.	Introduction to Differential Equations	MIT	Completed on December 26, 2019
23.	Calculus 1C : Coordinate Systems & Infinite Series	MIT	Completed on May ,11, 2019
24.	Engineering Mechanics	Ural Federal University	2017-18 Even Semester
25.	Calculus 1B: Integration	Massachusetts Institute of Technology (MIT), USA	2017-18 Odd Semester
26.	Calculus 1A: Differentiation	Massachusetts Institute of Technology (MIT), USA	2017-18 Odd Semester
27.	Mechanics of Material I: Fundamentals of Stress and Strain and Axial Loading	Georgia Institute of Technology, USA	2016-17 Even Semester
28.	A Hands – on Introduction to Engineering Simulations	Cornell University, USA	2016-17 Odd Semester
29.	Basics of Finite Element Analysis – I	NPTEL – IIT Kanpur	2015 – 16 Odd semester
30.	Introduction to Engineering Mechanics	Georgia Institute of Technology, USA	2015-16 Even Semester

#### 10. Patents filed/awarded

Sl. No	Title of the Invention	Application Number	Status	Date of Publications
1.	Tree Climbing Equipment	202341084695	Published in Gazette. Waiting for First Examination Report	12.01.2024
2.	Smart Multi-Functional Patient Wheelchair Cum Bed	202341083024	Waiting for First Examination Report	06/12/2023

3.	Portable Migrating Shop	202441011626	Published in Gazette. Waiting for First Examination Report	04.10.2023
4.	Solenoid Integrated Helmet Locking Device	202341083021	Published in Gazette. Waiting for First Examination Report	06.12.2023
5.	Innovative Hot Set Insert Press: Enhancing 3D Printed Object Assembly and Integrity	202341083028	Published in Gazette. Waiting for First Examination Report	04.10.2023
6.	Coconut Shell Burning Chamber	202441020949	Published in Gazette. Waiting for First Examination Report	20.03.2024
7.	Vehicular Energy Turbine System	202241066663	Granted on 09.05.2024 Patent No. 537387	21.11.2022
8.	Automated Multi-Purpose Agricultural Machine	202241060313	Granted on 05.06.2024 Patent No. 540887	21.10.2022
9.	Vehicle Accident Detection And Reporting System-202141001139	202141001139	Published in Gazette	22.01.2021
10.	Mechanically Operated Slider for Flipping the Electrical Switch	2202241000328	First Examination Report received and Submitted.	31.12.2021
11.	Kinematic Linkage Bicycle Transmission System	202341023027	Published in Gazette	29.03.2023
12.	Iot Enabled Customized Testing Machine For 3d Printed Polymer Based Threaded Fasteners	202341066436	Published in Gazette	04.10.2023
13.	Sprocket based chainless drive transmission system	202341032614	Published in Gazette	09.05.2023

## 11. Membership in Professional societies

Updated as on 15.02.2021

1. Indian Society for Technical Education (ISTE) (Life Number)- Membership No: LM101174
2. Society of Automotive Engineers (SAE), Membership No: 7170412054 (Yearly Member)
3. International Association of Engineers (IAENG): Membership Number: 254889 (Life Member)
4. Indian Welding Society (IWS), Membership Number: L01932 (Life member)
5. The Institution of Engineers (IEI), Membership Number: AM1912332 (Life Member)
6. Imperial Society of Innovative Engineers (ISIE), Membership Number : ISIE20A02001 (Yearly Membership)

## **12. Awards, Recognition & Achievements**

1. Acted as a panel member to conduct Mock Interview for final year students.
2. Orientation programme has been conducted for Harita Techserv about Design based need in Industry.
3. Conducted software training programme through Harita Techserv Pvt. Ltd. on NX-CAD for placement.
4. Every academic year, as an in charge of RIT-Harita Centre of Excellence, conducting placement drive and coordinating for Internship training programme.
5. Received Certificate of Appreciations for the committed support & Participation in PALS 2022 – 2023 as PALS VLAB Co-ordinator.
6. Received Certificate of Appreciations as an Executive Committee Member of Ramco Institute of Technology, a PALS Partner Institute, on Leadership and Administration.
7. Reviewed the manuscript “Analysis and Experimentation of Ceramic Coating on Brake Materials”, Materials Today Proceedings, Elsevier, MATPR-D-22-03660R1.
8. Reviewed the manuscript “Mechanical and Durability Properties of Biochar Concrete”, Materials Today Proceedings, Elsevier, MATPR-D-22-02911R1.
9. Received IITM PALS Partner-Institute Executive Committee Member Appreciation Certificate during the academic year 2022-23.
10. Internal Advisory Committee Member for International Conference on Contemporary Research Advancements in Mechanical Engineering, ICCRAME 23, Organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam, During March 24 & 25, 2023.
11. Recognition of the review contributed to the journal, 7 reviews, Materials Today: Proceedings.
12. Recognition for Outstanding Dedication & Support in Conducting INDIA DESIGN WEEK competition held during the year 2020-2021 conducted by Autodesk, ICTACADEMY, 2021.
13. Received a coordinator award (RIT-MEDSBY Innovation Centre) under Best collaborated award from MEDSBY Healthcare and Engineering Solutions, Coimbatore during the year of 2019 -20.
14. Received Best Paper Award Titled of “Experimental Investigation and Identifying the Suitable Process Parameters for Additively Manufactured PETG Material by Fused Deposition Modelling” through online during our International Conference on Energy and Materials Technologies (ICEMT-2021) Organized by the department of Mechanical Engineering, SSN College of Engineering during Aug 20-21.
15. Recognized and appointed as a reviewer for AIMTDR 2018 Conference technical paper, Anna University, Chennai
16. Faculty coordinator for Indian Railway Station Development Corporation (IRSDC), Station Rejuvenation initiative by Joint Action (SRIJAN) Competition contest. The student idea has shortlisted for real time implementation. The award has been given by IRSDC team members on 5th November, 2018 at New Delhi.
17. Received an appreciation certificate for producing a 100% result for the subjects of ME6018 Additive Manufacturing, ME8692 Additive Manufacturing, and GE8152 Engineering Graphics.
18. Awarded Primary Evaluator for Exceptional Contribution as a primary evaluator in Toycathon 2021.

**Any others (Board of studies/Governing Council/Staff Selection/ Reviewer/other duties)**

Class Adviser	2014 -2018	<ul style="list-style-type: none"> <li>Monitoring students discipline and ragging-related activities.</li> <li>Preparing consolidated mark statement based upon individual subject marks list and submission of mark statement to the HOD, Exam cell and Principal, and displaying it on Notice Board.</li> <li>Preparing and dispatching Students Attendance and Progress Report to Parents.</li> <li>Maintaining Students leave letters and related documents in the file.</li> </ul>
CAD Laboratory in charge	2014 to till Date	<ul style="list-style-type: none"> <li>Coordinating purchase process (both capital and consumables) as per our Institution purchase norms and guidelines.</li> <li>Maintaining the laboratory as per the requirement prescribed by Anna University.</li> <li>Coordinating all the regular classes and special classes.</li> <li>Conducting value added courses and certification programs.</li> </ul>
RIT-Harita Center of Excellence in charge	2015 to till Date	<ul style="list-style-type: none"> <li>Establishing the lab with all necessary requirements prescribed by Harita Techserv Ltd., Chennai.</li> <li>Coordinating the technical training Program for faculty members.</li> <li>Coordinating the Technical Training Programme for Students and Helping them for Placement activities.</li> </ul>
RIT-Medsby Innovation Centre in charge	2019 to till date	<ul style="list-style-type: none"> <li>Establishing the lab with all necessary requirements prescribed by Medsby Health Care Engineering Solutions, Coimbatore.</li> <li>Coordinating the technical training Program for faculty members and students.</li> <li>Coordinating the Technical Training Programme for Students and Helping them for Placement activities.</li> </ul>
E-BAJA Vehicle Coordinator	2018 to till date	<ul style="list-style-type: none"> <li>To advise the team on general engineering and engineering project management theory</li> <li>To advise, review, and monitor the progress of the team for overall design, development, manufacturing and testing of Baja buggy.</li> <li>To ensure safety of the vehicle and in-house manufacturing within college premises.</li> <li>To support &amp; assist to Baja SAEINDIA organization committee to conduct the event peacefully and in case of any disputes,</li> </ul>

		<p>resolve the issues that may arise during the competition.</p> <ul style="list-style-type: none"> <li>• To attend all meetings.</li> </ul>
E-Traktorea, Vehicle Coordinator(ISIE)	2020	<ul style="list-style-type: none"> <li>• To advise the team on general engineering and engineering project management theory</li> <li>• To advise, review, and monitor the progress of the team for overall design, development, manufacturing and testing.</li> <li>• To ensure safety of the vehicle and in-house manufacturing within college premises.</li> <li>• To support &amp; assist to ISIE organization committee to conduct the event peacefully and in case of any disputes, resolve the issues that may arise during the competition.</li> <li>• To attend all meetings.</li> </ul>
RITZY E-Flash Vehicle Coordinator	2020	<ul style="list-style-type: none"> <li>• To advise the team on general engineering and engineering project management theory</li> <li>• To advise, review, and monitor the progress of the team for overall design, development, manufacturing and testing.</li> <li>• To ensure safety of the vehicle and in-house manufacturing within college premises.</li> <li>• To support &amp; assist to ISIE organization committee to conduct the event peacefully and in case of any disputes, resolve the issues that may arise during the competition.</li> <li>• To attend all meetings.</li> </ul>
Internal ISO Auditor	2018 – till date	<ul style="list-style-type: none"> <li>• To audit the files and documents as per the ISO guidelines.</li> <li>• Prepare the document, based on the findings and innovative methods.</li> </ul>
Member of Program Assessment and Quality Improvement Committee	21.11.2019 – till date	Support and give suggestion for improvement in the Academic quality and Assessment Methods for Electrical and Electrical Engineering Department.
ICTACT Coordinator	2019 On wards	<ul style="list-style-type: none"> <li>• Organizing FDP</li> <li>• Organizing Skill based training programme.</li> <li>• Arranging Guest lectures and training</li> <li>• Organizing National Level programme</li> </ul>

**Reviewer:**

- Reviewed Journal of Biomedical Materials Research Part B: Applied Biomaterials, Wiley Publications.
- Reviewed the manuscript in the International Conference on Smart Technologies and Applications (ICSTA 2022), Ramco Institute of Technology, Rajapalayam, AICTE Sponsored supported by DBT, NABARD & BAI, 11th & 12th March 2022.
- Reviewed the manuscript titled “Mechanical and Durability Properties of Biochar Concrete”, Materials Today Proceedings, Elsevier, MATPR-D-22-02911.

- Reviewed the manuscript “Analysis and Experimentation of Ceramic Coating on Brake Materials”, Materials Today Proceedings, Elsevier, MATPR-D-22-03660R1 Paper Title: Comparative study of mechanical and morphological analysis of NaOH treated and untreated banana fiber reinforced with epoxy hybrid composite, Article type: ICAMMM2020, Manuscript Number: MATPR-D-20-03461, Date of Review Submitted: May 06, 2020, Materials Today Proceedings.
- Paper Title: Pedestrian safety around forklifts in Industry using computer vision techniques , Article type: ICAMR-2019, Manuscript Number: MATPR-D-19-03927, Date of Review Submitted: Feb 15, 2020 , Materials Today Proceedings.
- Paper Title: Microstructure and Mechanical Properties of Cu/RHA Composites Fabricated by Friction Stir Processing, Article type: ICAMR-2019 , Manuscript Number: MATPR-D-19-02613, Date of Review Submitted: Jan 18, 2020, Materials Today Proceedings.
- Paper Title: Numerical Analysis of Vibration Characteristics and Mechanical Properties of Polyoxymethylene / Cloisite Polymer Nanocomposites, Article type: ICAMR-2019, Manuscript Number: MATPR-D-19-02614, Date of Review Submitted: Jan 17, 2020, Materials Today Proceedings.
- Paper Title: An Analytical study of 3D Printing & MIM for Industrial Manufacturing, Article type: IWCSET20-Mech-019, Manuscript Number: MATPR-D-19-02614, Date of Review Submitted: June 22, 2020, International Web Conference on Smart Engineering Technologies-2020, Ramco Institute of Technology, Rajapalayam.

**Participation as Resource Person for delivery of special lectures / Chairing sessions/ Jury Etc**

Sl. No.	Nature of the Programme	Title of the Topic Delivered	Date(s)	Organization	Level (International/ National)
<b>Internal</b>					
1.	Short term Course on Finite Element Analysis	Historical Background – Mathematical Modeling of field problems in Engineering – Governing Equations Weighted Residual Technique	22.06.2020	Ramco Institute of Technology	International
2.	Short term Course on Finite Element Analysis	Hands on Training on MATLAB Fundamentals	25.06.2020	Ramco Institute of Technology	International
3.	Short term Course on Finite Element Analysis	Hands on Session on Ansys®/Matlab	29.06.2020	Ramco Institute of Technology	International

		® ( 1D –Bar Elements Problems) & Truss Element			
	Webinar on Industry 4.0 - AR&VR	Augmented Reality and Virtual Reality	25.05.2020	Ramco Institute of Technology	National
	Five day webathon	Augmented Reality - Future Topics in Mechanical Engineering	18.05.2020	Ramco Institute of Technology	National
<b>External</b>					
	Students Enrichment Programme	Engineering Materials and Its Applications	25.02.2020	Ammaiappar Polytechnic College	College level
	Three day online Faculty Development Programme on “3D Printing and Design”	Introduction to CAD and 3D Printing File formats, Design for additive Manufacturing	09.12.2020	Faculty Training Centre Government College of Technology, Coimbatore	National
	Three-day online Faculty Development Programme on “3D Printing and Design”	Extrusion Based additive Manufacturing Technique process parameters Typical Materials and Application	09.12.2020	Faculty Training Centre Government College of Technology, Coimbatore	National