

## BIO DATA



Name : S. Rajakarunakaran

Designation : Professor & Head

Department : Mechanical Engineering

Address for Communication : 9A12/1, Sudharsan Garden,  
Rajiv Gandhi Nagar,  
Rajapalayam - 626 108  
Virudhunagar District  
Tamil Nadu, India

Email : srajakarunakaran@yahoo.com  
rajakarunakaran@ritrjpm.ac.in

Mobile Number : +919865312352

Google Scholar link: <https://scholar.google.com/citations?user=nUady0EAAA&hl=en>

### 1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
Ph.D.	Design and Development of Intelligent Decision Support System for Safety Management in Process Industries	College of Engineering, Guindy (CEG)/ Anna University, Chennai	2008
M.E.	Industrial Safety Engineering	National Institute of Technology, Trichy/ Bharathidasan University, Trichirappalli	1997
B.E.	Mechanical Engineering	Arulmigu Kalasalingam College of Engineering, Krishnankoil/ Madurai Kamaraj University, Madurai	1989

### 2. Professional/ Industry Experience

: (in chronological order)

S. No	Designation	Institution/ Organization	Period	
			From	To
1.	Professor and Head, Mechanical Engineering and Vice Principal	Ramco Institute of Technology, Rajapalayam	13.06.2018	Till Date
2.	Professor and Head, Mechanical Engineering	Ramco Institute of Technology, Rajapalayam	02.06.2014	13.06.2018
3.	Professor (Senior), Mechanical Engineering	Kalasalingam University, Anand Nagar, Krishnankoil, Tamilnadu	01.09.2012	31.05.2014

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S. No	Designation	Institution/ Organization	Period	
			From	To
4.	Professor, Mechanical Engineering	Kalasalingam University, Anand Nagar, Krishnankoil, Tamilnadu	01.01.2010	31.08.2012
5.	Associate Professor, Mechanical Engineering	Kalasalingam University, Anand Nagar, Krishnankoil, Tamilnadu	01.01.2008	31.12.2009
6.	Assistant Professor, Mechanical Engineering	Arulmigu Kalasalingam College of Engineering, Anand Nagar, Krishnankoil	01.07.2005	31.12.2007
7.	Senior Lecturer, Mechanical Engineering	Arulmigu Kalasalingam College of Engineering, Anand Nagar, Krishnankoil	01.06.2001	30.06.2005
8.	Lecturer, Mechanical Engineering	Arulmigu Kalasalingam College of Engineering, Anand Nagar, Krishnankoil	01.01.1998	31.05.2001
9.	Lecturer, Mechanical Engineering	Arulmigu Kalasalingam College of Engineering, Anand Nagar, Krishnankoil	15.07.1992	31.05.1996
10.	Maintenance Engineer	Argo Carbonic Gases Private Limited, Chengalpet, Tamil Nadu	01.09.1989	11.09.1991

### 3. Research Interest

Industrial Safety Engineering, Energy and Environment, Condition Monitoring, Fault Diagnosis, Industrial Engineering

### 4 Publications

#### 4.1 JOURNAL PUBLICATIONS

1. Senthil Kumar.S, R Sudhakara Pandian, P Pitchipoo, **S Rajakarunakaran**, S Rajesh, "Investigation of Al-Mg based composite incorporated with MoS<sub>2</sub> through powder metallurgy" The Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Published online 10 Jan 2021. <https://doi.org/10.1177/0954408920985761> (WoS)
2. Valai Ganesh S, **Rajakarunakaran S**, Manoj Kumar R, Gokul Prasath N, Design of Vertical Axis Wind Mill with Shrinkage of Blades, Third Annual Technical Volume of Electronics and Telecommunication Engineering Division on the theme "Intelligent Systems and Green Technology" on 20.01.2021. (<https://www.ieindia.org/webui/IEI-Publication.aspx#annual-technical-volume>)
3. Ashok Kumar M, Kumaresan G **Rajakarunakaran S**, "Experimental study of moisture removal rate in Moringa leaves under vacuum pressure in closed-loop heat pump dryer", Elsevier Materials Today Proceedings. Available online 8th May 2020. DoI: <https://doi.org/10.1016/j.matpr.2020.04.244>

Updated as on 15.02.2021

4. Lakshmanan M, Selwin Rajadurai J, **Rajakarunakaran S**, "Machining studies of Al7075 in CNC Turning Using Grey Relational Analysis, Materials today: Proceedings. Available online 9th July 2020, DoI: <https://doi.org/10.1016/j.matpr.2020.05.763>
5. S.Maharajan, D.Ravindran, **S.Rajakarunakaran**, C.Gururaj, Experimental Investigation of Erosion and Corrosion behavior of HVOF Sprayed WC + 50% Cr<sub>3</sub>C<sub>2</sub> composite coatings on Sustainable Austenitic Stainless Steel (SS316) Journal of Green Engineering, Vol.10, Issue 7. (Scopus indexed).
6. S. Godwin Barnabas, **S. Rajakarunakaran**, G.Satish Pandian, A.Muhamed Ismail Buhari, V.Muralidharan, "Review on enhancement techniques necessary for the improvement of underwater welding". Materials Today Proceedings (Impact factor 0.694.), Available online 15th April 2020. DoI: <https://doi.org/10.1016/j.matpr.2020.03.725>
7. M.Lakshmanan, J.SelwinRajadurai, V.Chakkravarthy, **S.Rajakarunakaran**, Wear and EBSD studies on (SiC/NiTi) reinforced Al7075 composite, Materials Letters, Volume 272, 1 August 2020, 127879. WoS(SCI E)
8. M. Lakshmanan, J. Selwin Rajadurai, V. Chakkravarthy, **S. Rajakarunakaran**, Tribological investigations on h-BN/NiTi inoculated Al7075 composite developed via ultrasonic aided squeeze casting, Materials Letters, Volume 285, 15 February 2021, 129113, doi: <https://doi.org/10.1016/j.matlet.2020.129113>
9. M.Pethuraj, M.Uthayakumar, **S.Rajakarunakaran**, S.Thirumalai Kumaran, S.Rajesh (2019) "Study on Ultrasonic Assisted Drilling of Aluminium Sillimanite Reinforced Composites", International Journal of Mechanical and Production Engineering Research and Development, Vol.9, special Issue 2, 923-932.
10. S Maharajan, D Ravindran, **S Rajakarunakaran**, M Adam Khan (2019), "Analysis of surface properties of tungsten carbide (WC) coating over austenitic stainless steel (SS316) using plasma spray process", Materials Today: Proceedings, (Impact Factor: 0.694. Scopus indexed).
11. P.Sureshkumar, VC.Uvaraja, **S.Rajakarunakaran** (2019), "Influence of number of passes, processing route and Age Hardening on Microstructure, Mechanical and Tribological Properties of ECAPED Aluminium Alloy adapted design of experiments through Taguchi Technique", Journal of the Balkan Tribological Association, Vol.25, No.2, 260-279.
12. T.Karthik@Siva, V.Kannan, **S.Rajakarunakaran**, S.Valai Ganesh (2019), "Development of Smart Humanoid Flexo Grab", International Journal of Applied Engineering Research, Vol.14, No.11, Special Issue, 193-199.

13. P.Sureshkumar, VC.Uvaraja, **S.Rajakarunakaran** (2019), “Addition of metallic reinforcement enhanced deformation and properties of ceramic reinforced composite by adapting ECAP with increment number of passes”, *Materials Research Express* 6(8), 086502.
14. M.Pethuraj, M.Uthayakumar, **S.Rajakarunakaran**, S.Rajesh (2018), “Solid particle erosive behavior of sillimanite reinforced aluminum metal matrix composites”, *Materials Research Express* 5 (6), 066514.
15. M.Pethuraj, M.Uthayakumar, **S.Rajakarunakaran**, S.Rajesh (2018), “Electrical Discharge Machining of sillimanite reinforced aluminum metal matrix composites”, *Journal of Advanced Microscopy Research* 13 (2), 171-175.
16. P Pitchipoo, P.Venkumar, **S.Rajakarunakaran**, R.Ragavan (2018), “Decision Model for Supplier Evaluation and Selection in Process Industry: A Hybrid DEA Approach”, *International Journal of Industrial Engineering*, 25(2), 186-199.
17. DS Vincent, P Pitchipoo, N.Rajini and **S Rajakarunakaran** (2018), “Reduction of blind spots in heavy transport vehicles through the optimization of driver seat design”, *International Journal of Computer Aided Engineering and Technology*, 10 , (1-2) 3-14.
18. A.Maniram Kumar, **S.Rajakarunakaran**, P.Pitchipoo, R.Vimalesan (2018), “Fuzzy based risk prioritization in an auto LPG dispensing station”, *Safety Science* 101, 231-247.
19. A.Maniram Kumar, **S.Rajakarunakaran** and V.Arumuga Prabhu (2017), “Application of Fuzzy HEART and expert elicitation for quantifying human error probabilities in LPG refueling station”, *Journal of Loss Prevention in the Process Industries* 48, 186-198.
20. DS Vincent, P Pitchipoo, **S Rajakarunakaran** (2017), Hybrid optimisation model for blind spot reduction in heavy vehicles, *International Journal of Computer Aided Engineering and Technology*, Vol.9, Issue 2, 145-153.
21. M.T.Sambandam, N. A. Madlool, R. Saidur, D.Devaraj, **S.Rajakarunakaran**, (2017), Investigation of energy saving potentials in T-junction and elbow in compressed air systems, *International Journal of Energy Efficiency*, 1-15.
22. N.Rajini, JTW Jappes, I.Siva, **S.Rajakarunakaran** (2017), Fire and thermal resistance properties of chemically treated lingo-cellulosic coconut fabric-reinforced polymer eco-nanocomposites, *Journal of Industrial Textiles*, 47 (1), 104-124..
23. P.Pitchipoo, DS.Vincent, **S.Rajakarunakaran** (2016), Development of Fuzzy Based Intelligent Decision Model to Optimize the Blind Spots in Heavy Transport Vehicles, *Promet – Traffic & Transportation*, Vol. 28, No. 1, 1-16.

24. A.Maniram Kumar, **S.Rajakarunakaran** and V.Arumuga Prabhu (2015), “ Human Reliability Analysis by Cognitive approach for unloading process in an ALDS (Auto LPG Dispensing Station)”, Indian Journal of Science and Technology, vol.8, no. 26, pp. 1-11.
25. A.Maniram Kumar, **S.Rajakarunakaran** and V.Arumuga Prabhu (2015), “Analysis of Failure Modes in the Filling Process of LPG Storage Tanks” International Journal of Applied Engineering Research, vol.10, no.45, pp.31839-31845.
26. A.Maniram Kumar, **S.Rajakarunakaran** and V.Arumuga Prabhu (2015), “Quantification of Human error Probability by Cognitive Approach in LPG Dispenser” International Journal of Applied Engineering Research, vol.10, no.11, pp. 27635-27650.
27. P.Pitchipoo, DS.Vincent, N.Rajini, **S.Rajakarunakaran** (2015) ‘Fuzzy Analytical Hierarchy Process based optimization of rear view mirror design parameters for blind spots reduction in heavy transport vehicles’, International Journal of Vehicle Structures & Systems, 7(4), 136-140.
28. P. Pitchipoo, P. Venkumar and **S. Rajakarunakaran** (2015) "Grey decision model for supplier evaluation and selection in process industry: a comparative perspective", The International Journal of Advanced Manufacturing Technology, vol. 76, no. 9-12, pp. 2059-2069.
29. **S. Rajakarunakaran**, A. Maniram Kumar. and V. Arumuga Prabhu (2015) "Applications of fuzzy faulty tree analysis and expert elicitation for evaluation of risks in LPG refueling station", Journal of Loss Prevention in the Process Industries, vol. 33, pp. 109-123.
30. Ganesan P. **S.Rajakarunakaran**, M.Thirugnanasambandam and D.Devaraj (2015) “Specific energy consumption and CO2 emission analysis in a textile industry”, International Journal of Green Energy, 12(7), 85-693.
31. Ganesan P. **S.Rajakarunakaran**, M.Thirugnanasambandam and D.Devaraj (2015) ‘The influence of floor tile colour on lighting and energy saving’ Power Electronics and Renewable Energy System, 177-182.
32. P.Ganesan, **S.Rajakarunakaran**, M.T.Sambandam, D.Dvaraj (2015), Artificial neural network model to predict the diesel electric generator performance and exhaust emissions, Energy, 83, 115-124
33. A.Maniram Kumar and **S.Rajakarunakaran** (2014), “Fault Tree Analysis of LPG refuelling station”, International Journal of Engineering Research & Technology, vol.3, no.5, 1293-1299.

34. N.Muthuraman, P.Palani, **S.Rajakarunakaran** (2014), ‘Arc Mapping: An effective tool to determine Fire area of origin in fire investigation, International Journal of Research in Engineering and Technology, 03(11), 59-3.
35. P. Pitchipoo, D. Vincent, N. Rajini and **S. Rajakarunakaran** (2014), "COPRAS Decision Model to Optimize Blind Spot in Heavy Vehicles: A Comparative Perspective", Procedia Engineering, vol. 97, pp. 1049-1059.
36. S. Rajesh, **S. Rajakarunakaran**, R. Sudhakarapandian (2014) “Optimization of the Red Mud-Aluminum Composite in the Turning process by the Grey Relational Analysis with Entropy”, Journal of Composite Material, 48(17), 2097-2105.
37. N Rajini, JT Winowlin Jappes, B Suresha, **S Rajakarunakaran**, I Siva, N Azhagesan (2014), “Effect of organically modified montmorillonite clay on wear behavior of naturally woven coconut sheath/polyester composite”, Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 228, (5) 483-497.
38. Pitchipoo P., Venkumar P. and **Rajakarunakaran S.**, (2013) “Modeling and development of a decision support system for supplier selection in the process industry” Journal of Industrial Engineering International - a Springer Open Journal, 9(1), 1-15.
39. S. Rajesh, **S. Rajakarunakaran**, R. Sudhakarapandian, P.Pitchipoo (2013), MOORA – based Tribological studies on red mud reinforced aluminum metal matrix composites, Advances in tribology, DOI: 10.1155/2013/213914, 8, vol. 2013, Article ID 213914.
40. .Pitchipoo P., Venkumar P. and **Rajakarunakaran S.**, (2013) “Fuzzy hybrid decision model for supplier evaluation and selection”, International Journal of Production Research Vol. 51, No. 13, pp. 3903-3919.
41. N.Rajini, J.T.Winowlin Jappes, **S.Rajakarunakaran**, M.Prabhu, C.Bennet (2013) “Influence of MMT Nanoclay on Impedance Spectroscopy Analysis of Naturally Woven Coconut Sheath / Polyester Hybrid composite”, Journal of Applied Polymer Science Volume 129, Issue 6, 15 September 2013, Pages: 3746–3756.
42. N.Rajini, J.T.Winowlin Jappes, **S.Rajakarunakaran**, P.Jeyaraj, C.Bennet (2013) “Effect of MMT Nanoclay on Temperature Dependence Mechanical Properties of Naturally Woven Coconut Sheath / Polyester composite”, Journal of Reinforced Plastics and Composites, 32(11), 811-822.
43. Ganesan P. **S.Rajakarunakaran**, M.Thirugnanasambandam and D.Devaraj (2013) “Estimation of energy and carbon saving potential in industrial lighting system”. Advanced Materials Research: 768, 272-279.

44. S. Rajesh, D. Devaraj, R. Sudhakara Pandian, **S. Rajakarunakaran**,(2013) “Multi response optimization of machining parameters of Red mud based aluminium metal matrix composite in turning process” International Journal of Advanced Manufacturing Technology, Volume 67, Issue 1-4, pp 811-821.
45. N. Rajini, J.T. Winowlin Jappes, **S. Rajakarunakaran**, C. Bennet, (2013) “Effects of Chemical Modifications and MMT nanoclay addition on Transport Phenomena of Naturally Woven Coconut Sheath/ Polyester Nanocomposite”, Chinese Journal of Polymer Science, Volume 31, Issue 8, pp 1074-1086.
46. J. T. Winowlin Jappes, N. Rajini, **S. Rajakarunakaran**, P.Jeyaraj,(2013) “Dynamic Mechanical Analysis and Free vibration behaviour in Chemical Modifications of Naturally woven coconut sheath/MMT clay reinforced hybrid polymer Composite”, Journal of Composite Materials, 47 (24), 3105-3121.
47. S. Rajesh, **S. Rajakarunakaran**, R. Sudhkarapandian, M. Uthayakumar (2012) “Modeling and optimization of specific wear rate and coefficient of friction of aluminum based red mud metal matrix composites using Taguchi method and Response surface methodology”, Journal of Material physics and Mechanics, 15, 150-166.
48. N.Rajini, J.T.Winowlin Jappes, **S.Rajakarunakaran**, I.Siva (2012) “Tensile and Flexural Properties of MMT clay/ Polyester nanocomposite using Robust design concepts”, Nano Hybrids, (2) pp 87-101.
49. N. Rajini, J. T. Winowlin Jappes, **S. Rajakarunakaran**, I.Siva, (2012) “Effect of Processing Variables on the Mechanical Properties of Montmorillonite Clay/Unsaturated Polyester Nano composite Using Taguchi based Grey Relational Analysis”, Journal of Polymer Engineering, 32, 555-566.
50. J. T. Winowlin Jappes, N. Rajini, **S. Rajakarunakaran**, P.Jeyaraj, (2012) “Mechanical and Free Vibration Properties of MMT clay dispersed with Naturally Woven Coconut Sheath Composite”, Journal of Reinforced Plastics and Composites, 31 (20), 1364-1376.
51. R. Saidur, M. T. Sambandam, M. Hasanuzzaman, D. Devaraj, **S. Rajakarunakaran** and M. D. Islam (2012), “An energy flow analysis in a paper-based industry”, Clean Technologies and Environmental Policy, 14 (5), 905-916.
52. R. Saidur, M.T. Sambandam, M. Hasanuzzaman, D. Devaraj, **S. Rajakarunakaran**, (2012) “An analysis of actual energy savings in an Indian cement Industry through energy efficiency index”, International Journal of Green Energy, 9 (8), 829-840.

53. P. Pitchipoo, P. Venkumar, and **S. Rajakarunakaran**, (2012) "A distinct decision model for evaluation and selection of supplier for an electro plating industry", International Journal of Production Research, Vol. 50, No. 16, pp. 4635-4648.
54. P. Pitchipoo, P. Venkumar, K. Muthugurupackiam and **S. Rajakarunakaran**, (2011) "Modelling and Development of Decision Model for Supplier Selection in Process Industry", International Journal of Computer Aided Engineering and Technology, Vol. 3, No 5/6, pp. 504-516.
55. P. Pitchipoo, P. Venkumar, and **S. Rajakarunakaran**, (2011) "A Hierarchical Decision Support System for Supplier Selection in Process Industry", CIIT International Journal of Automation and Autonomous System, 3(11), 508-513.
56. P. Pitchipoo, P. Venkumar and **S. Rajakarunakaran**, (2011) "Grey Decision Model for Supplier Selection in Process Industry", International Journal of Operations Systems and Human Resource Management, Vol. 1, No. 1-2, pp. 61-66.
57. M. Thirugnanasambandam, M. Hasanuzzaman, R. Saidur, M.B. Ali, **S. Rajakarunakaran**, D. Devaraj , N.A Rahim, (2011) "Analysis of electrical motors load factors and energy savings in an Indian cement industry" Energy The International Journal, 36 (7), 4307-4314.
58. **S. Rajakarunakaran**, P. Venkumar, D. Devaraj, and K. Suryaprakasa Rao. (2008) "Artificial Neural Network approach for fault detection in rotary system", Applied Soft Computing Journal, Vol. 8, No.1, pp 740-748.
59. **S. Rajakarunakaran**, D. Devaraj, and K. Suryaprakasa Rao. (2008) "Fault detection in centrifugal pumping systems using neural networks", International Journal of Modelling, Identification and Control, Vol. 3, No. 2, pp. 131-139.
60. **S. Rajakarunakaran**, D. Devaraj, G.S.Venkat Ratnam and K. Suryaprakasa Rao (2007) "Artificial Neural Network approach for Fault Detection in LPG Transfer System", Advances in Modelling and Analysis B , Vol.50, No. 1-2, pp. 36-51.
61. **S. Rajakarunakaran**, D. Devaraj, G.S.Venkat Ratnam and K. Suryaprakasa Rao (2006) "Fuzzy System Approach for Fault Diagnosis in LPG Bottling Plant – A Case study", International Journal of Industrial Engineering - Theory Applications and Practice, Vol 13, No. 3, pp. 292-298.

## 4.2 CONFERENCE PUBLICATIONS

1. S.Valai Ganesh, Mohit Agarwal, Suneet Kr. Gupta and S.Rajakarunakaran, "Static and Dynamic Activities Prediction of Human using Machine and Deep Learning Models" in 8th International Conference on Innovations in Computer Science and Engineering, ICICSE-2020-Virtual Conference, Guru Nanak University, Hyderabad, during 28-29 Aug., 2020.

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2. N.Sankarachelliah, V.Rijith Kumar, P.Senthilram, S.Valai Ganesh, T.Selva Sundar, S.Godwin Barnabas and S.Rajakarunakaran, "Development of Self Governed Flashing System in Automotives using AI Technique" in 8th International Conference on Innovations in Computer Science and Engineering, ICICSE-2020-Virtual Conference, Guru Nanak University, Hyderabad, during 28-29 Aug., 2020.
3. S.Maharajan, D.Ravindran, S.Rajakarunakaran, C.Gururaj (2020) "Experimental Investigation of Erosion and Corrosion behavior of HVOF Sprayed WC + 50% Cr<sub>3</sub>C<sub>2</sub> composite coatings on Sustainable Austenitic Stainless Steel (SS316)", Proceedings of International Web Conference on Smart Engineering Technologies 2020 (IWCSET -2020), Organized by RIT, June 26th and 27th, 2020.
4. M Vignesh, L Karthikeyan, K Amudhan, S Rajakarunakaran, G Prabu Ram, P Pitichipoo,"Design and Analysis of Motorcycle Leg Guard Under Dynamic Conditions", Proceedings of International Web Conference on Smart Engineering Technologies 2020 (IWCSET -2020), Organized by RIT, June 26th and 27th, 2020.
5. N Siranjeevi, Vishnu kumar R, Nijanthan S, S Rajakarunakaran, N.L. Sujin, J Jabinth"Performance Study on Vapour Compression Refrigeration System for Improving Energy Efficiency using Adjustable Freezer", Proceedings of International Web Conference on Smart Engineering Technologies 2020 (IWCSET -2020), Organized by RIT, June 26th and 27th, 2020.
6. J Jabinth, N Selvakumar, S Rajakarunakaran, P Suresh Kumar, S Godwin Barnabas, N L Sujin"Corrosion Behaviour of Copper Based Composite Materials", Proceedings of International Web Conference on Smart Engineering Technologies 2020 (IWCSET -2020), Organized by RIT, June 26th and 27th, 2020.
7. P.Sureshkumar, S.Rajakarunakaran, "Imposing severe plastic deformation on Cp-Ti for production ultrafine grain through repetitive corrugation and straightening technique for biomedical applications" International Web Conference on Science, Engineering & Technology (IWCSET-2020) organized by Society for Technologically Advanced Materials of India (STAMI) during May 15-16, 2020.
8. M Ashok Kumar and S Rajakarunakaran, "Investigation of Drying Rate in Moringa Leaves under Periodic and Continuous Airflow in Vacuum Condition", National Conference on Innovative Technologies for Sustainable Agriculture organized by Annai Veilankanni's College of Engineering, Perungalathur on 31st January, 2020.
9. S Maharajan and S Rajakarunakaran, "Design and Fabrication of Ground Nut Pod Separator", National Conference on Innovative Technologies for Sustainable Agriculture organized by Annai Veilankanni's College of Engineering, Perungalathur on 31st January, 2020.

10. M.Lakshmanan, J.SelwinRajadurai and S.Rajakarunakaran, “Estimation of mechanical and material characteristics of hybrid aluminium composites in squeeze die casting” Kalasalingam Global Conference (KGC-2019)- International Conference on Sustainable Development, Kalasalingam Academy of Research and Education on December 19, 2019.
11. J.Jerold John Britto, A. Vasanthanathan, S.Rajakarunakaran, R.Venkatesh, R. Prabhakaran “Numerical Study on Interfacial Failure of Mixed Mode Debonding Laminated Composite Using Cohesive Zone Model” Kalasalingam Global Conference (KGC-2019)- International Conference on Sustainable Development, Kalasalingam Academy of Research and Education on December 19, 2019.
12. Ashok Kumar M, Kumaresan G and Rajakarunakaran S, “Experimental study of moisture removal rate in moringa leaves under vacuum pressure in closed-loop heat pump dryer” International Conference on Advances in Materials Research – 2019 at Bannari Amman Institute of Technology, Sathyamangalam, TN on December 06&07, 2019.
13. M.Lakshmanan, J.SelwinRajadurai, S.Rajakarunakaran, “Machining Studies Of Al7075 In CNC Turning Using Grey Relational Analysis”, 2nd International Conference on Recent Trend in Metallurgy, Material Science and Manufacturing organized by NIT, Trichy on 27 – 28th December, 2019.
14. Sivakumar V, Arun Kumar R, Kabeel A, Ganapathy Sundaram E, Rajendran DR, Muthumanohar D, Sathyamurthy R, Rajakarunakaran S, “ Performance enhancement of single slope passive solar still with heat pipes”, 22nd International Water Technology Conference, IWTC 2019 organized by International Water Technology Association, Ismailia, Egypt, 12-13 September 2019.
15. S.Godwin Barnabas, S.Rajakarunakaran, V.Sivakumar, S.Ramar, M.Sankaran, P.Sivakumar and K.Sivagurunathan, “Composite Materials from wood and rubber waste”, International Conference on Advances in Materials Processing and Characterization (ICAMPC-2019), Bannari Amman Institute of Technology, Sathyamangalam, TN, on September 10-11, 2019.
16. S.Maharajan, S.Rajakarunakaran, R.Prabhakaran, M.Adam Khan, “Analysis of Surface Properties of Tungsten Carbide (WC) Coating over Austenitic Stainless Steel (SS316) using Plasma Spray Process”, International Conference on Materials and Manufacturing Methods (3M – 2019), National Institute of Technology, Trichy, July 5 - 7, 2019.
17. J. Jerold John Britto, A. Vasanthanathan and Dr. S. Rajakarunakaran, “Condition monitoring on piezo enabled composite beam structure under finite element

simulation using COMSOL®”, First international Conference on Sustainable Development & Energy Environment organized by Kamaraj College of Engineering and Technology during 18th – 20th June, 2019.

18. M.Lakshmanan, J.Selwin Rajdurai, S.Rajakarunakaran, M.Padmanapan, R.Pranav Ram, “Machining studies of Al 7075 in CNC Turning using Grey Relational Analysis”, International conference on Materials, manufacturing and machining, Bannari Amman Institute of Technology, Sathyamangalam, TN, on March 8-9, 2019.
19. S.Rajakarunakaran, S.Godwin Barnabas, M.Lakshmanan, R.Pranav Ram, S.Ramesh, J.Veeraiah, “Analytics in Reducing the defect rate in Helmet Manufacturing Unit”, 6th International Conference on Business Analytics and Intelligence (ICBAI-2018) at Indian Institute of Science, Bangalore, on 20-22 December 2018.
20. S.Maharajan, D.Ravindran, S.Rajakarunakaran, “ Effect of Heat Treatment on Formability of AA6082 by Single Point Incremental Forming Process”, 7th International and 28th All India Manufacturing Technology, Design and Research (AIMTDR) Conference 2018 organized by Anna University, Chennai on 13-15 December 2018.
21. J.Jabinth, S.Rajakarunakaran, “Application of Outcome based education for Continual Quality Improvement-Case Study”, International Conference on Recent Trends in Engineering Education (ICRTEE 2K18) organized by NITTTR, Chennai at P.S.R. Engineering College, Sivakasi, on 5 & 6 October 2018.
22. J. Jerold John Britto, ,A.Vasanthanathan, Dr.S.Rajakarunakaran, “Finite Element Modeling And Experimental Evaluation Of GFRP Radius Rod For Automobile Component Under Static And Dynamic Loading Condition”, Third International Conference on Advanced Manufacturing and Automation, Kalasalingam University, April 2018.
23. S. Senthil Kumar, R., SudhakarPandian, S. Rajakarunakaran, S. Rajesh, “An Overview Of Corrosion In Al- Mg Based Alloys In Ship Hull”, Third International Conference on Advanced Manufacturing and Automation, Kalasalingam University, April 2018.
24. M.Lakshmanan, J.Selwin Rajadurai, S.rajakarunakaran, “Machining Studies of Al7075 in CNC Turning using GRA”, Third International Conference on Advanced Manufacturing and Automation, Kalasalingam University, April 2018.
25. S.Balaji, S.Mohamed Musthafa, S Rajakarunakaran and M Ashok kumar, “Design FMEA of Adiabatic Dehumidification System for Drying Herbal Leaves”, Innovation Engineering Technology’17 – National Level Paper Presentation Contest at Ramco Institute of Technology, March 2017.

26. Jerold John Britto, M.Vasanthanathan and S.Rajakarunakaran, "Finite Element Modeling and Simulation of Composite Piezoelectric Transducer Cantilever Beam Using Combol ® Multiphysics Tool", Indo-Brazil Bilateral Second International Conference on Advanced Materials & Processing at Kalasalingam University, March 2017
27. P.Pitchipoo, P.Venkumar and S.Rajakarunakaran, "Novel Optimization of Friction Stir Welding Process Parameters on Aluminum Alloy 6061-T6", Indo-Brazil Bilateral Second International Conference on Advanced Materials & Processing at Kalasalingam University, March 2017.
28. Balaji, S.Mohamed Musthafa, K.Gopinath, S.Rajakarunakaran, M.Ashokumar, "Design FMEA of Adiabatic Dehumidification System for Drying Herbal Leaves", Innovation of Engineering & Technology '17- National Level Paper Presentation Contest organized by Recruitment Analysis Council, Institutional Partner National Cyber Safety and Security Standards on March 2017.
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  44. Pitchipoo P., Ragavan R., Venkumar P. and Rajakarunakaran S., “Development of Decision Support System for Supplier Evaluation and Selection Using Integrated DEA”, International Conference on Advanced Manufacturing and Automation (INCAMA- 2013), Kalasalingam University, March 28-30, 2013.
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73. M.Thirugnanasambandam and S.Rajakarunakaran "A Study on Energy Intensity Vis-à-vis GHG Emission in Industries", International Conference on Advanced Manufacturing and Automation (INCAMA2009), Kalasalingam University, March 26-28, 2009.
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  79. S.Rajakarunakaran and D.Devaraj, “Neural Network Approach for Fault Detection in Sugar Mill System” in the National Conference on Challenges and Innovative Practice on Design, Manufacturing and Materials (NCCIPDMM 2008) in Kalasalingam University, Tamil Nadu, India during March 12-13, 2008.
  80. S.Rajakarunakaran, C.Raveendra Baskar and K.Suryaprakasa Rao, “Design and Development of Decision Support System for Safety Management of Rotary System” in the 9th International Conference on Decision Support Systems (ICDSS 2007), in IIM Kolkata, India during January 2-4, 2007.
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  82. S.Rajakarunakaran, “Fault Diagnosis of Centrifugal Pumping System using Neural Networks and Fuzzy Logic” in the 11th Annual International Conference on Industrial Engineering Theory, Applications and Practice – IJIE 2006, Nagoya, Japan October 24-27, 2006.
  83. C.Raveendra Baskar, S.Rajakarunakaran and K.Suryaprakasa Rao, “Fault Identification using Feature Extraction” International Conference on Business, Commerce and Management, Beijing on June 23-24, 2006.
  84. S.Rajakarunakaran, A.Balamanikandan, D.Devaraj and K.Suryaprakasa Rao, “Real Time Fault Diagnosis for A Centrifugal Pumping System – A Neural Network Based

- Approach” in the International Conference on Global Manufacturing and Innovation (GMI 2006), Coimbatore Institute of Technology, Coimbatore in collaboration with University of Massachusetts, USA on July 27-29, 2006.
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  86. S.Rajakarunakaran, K. Ganesan, A.Balamanikandan and D.Dvaraj, “Artificial Neural Network Approach for Fault Diagnosis in Quadruple-Tank Process” in the 3rd National Conference for Research Scholars on “Emerging Trends in Mechanical and Manufacturing Engineering”, Adhiyamaan College of Engineering, Hosur on March 29-30, 2006.
  87. S.Rajakarunakaran, K.Ganesan, D.Devaraj and K.Suryaprakasa Rao, “Vibration Monitoring and Analysis to detect faults in Rotary Equipment – Case Study” in All India Seminar on Advances in Production Engineering: Vision 2020, The Institution of Engineers (India), Jaipur on Dec 28th to 30th , 2005.
  88. Mamatha Mandala, S.Rajakarunakaran and K.Suryaprakasa Rao, “Decision Support System for Safety Management in Process Industries: A Case Study” in the International Conference IPSI 2005 Belgrade on June 2-5, 2005.
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  91. S.Rajakarunakaran, G.Gopinath, G.S.Venkat Ratnam and K.Suryaprakasa Rao, “Artificial Intelligence and Expert System Methods in Safety Engineering” in the national Conference on Modeling and Analysis of Production systems (MAPS 2004) organized by National Institute of Technology, Trichy on January 22-23, 2004.
  92. S.Rajakarunakaran, D.Devaraj, G.S.Venkat Ratnam and K.Suryaprakasa Rao, “A Fuzzy Expert System for Hazard Analysis and Managerial Decision Making in Critical Safety Areas: A Case Study” in the Doctoral Consortium, VII Annual

International Conference, the Society of Operations Management (SOM 2003) organized by Indian Institute of Management Indore on December 19-21, 2003.

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94. S.Rajakarunakaran and R.Saravanan "Application of Conventional and Non-conventional Optimization Techniques for CNC Machining Processes" in the national conference organized by Adiyamaan College of Engineering, Hosur on March 2003.
95. S.Rajakarunakaran, R.Saravanan and V.Janakiraman " Optimization of Milling Operations Using Nelder Mead Simplex and Simulated Annealing Algorithms" 20th AIMTDR at Birla Institute of Technology, Mesra, Ranchi , December 2003.
96. P.Venkumar, S.Saravanasankar and S.Rajakarunakaran "Cell Formation using Artificial Neural Network for Cellular Manufacturing Systems," in the Proceedings of National conference on Manufacturing Engineering in Twenty First Century, held at Indian Institute of Technology, Kanpur on March 2 & 3, 2001.
97. S.Saravanasankar, S.Rajakarunakaran and P.Venkumar "Scheduling optimization for Flexible Manufacturing Systems using Genetic Algorithm," in the Proceedings of 15th National Convention of Production Engineers – Emerging Convergence in Manufacturing Systems (ECMS-2001), held at The Institute of Engineers (India), M. P. State centre, Bhopal on 3rd & 4th March 2001.
98. S.Rajakarunakaran and G.Kanagaraj, "Study of Corrosion Problems in Sugar Industries" in the International Conference organized by National Corrosion Council of India and Central Electro Chemical Research Institute, Karaikudi, on December 2000.

#### **4.3 Book/Book chapter publications**

- S Maharajan, D Ravindran, S Rajakarunakaran (2019), "Effect of Heat Treatment on Formability of AA6082 by Single Point Incremental Forming", Series Title: Lecture Notes on Multidisciplinary Industrial Engineering, Book Title: Advances in Forming, Machining and Automation, Book Subtitle: Proceedings of AIMTDR 2018, Springer, 2019, ISBN: 978-981-32-9416-5, DOI: 10.1007/978-981-32-9417-2.
- **J. Jerold John Britto**, A. Vasanthanathan, **S. Rajakarunakaran**, **R.Prabhakaran**, " 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>

- **J. Jerold John Britto**, A. Vasanthanathan, **S. Rajakarunakaran**, **K.Vigneshwaran**, "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>
- **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>
- **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>
- **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>

## 5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
1.	Industrial Automation using Smart Production	AICTE MODROB	2 Years	17,75,667	On- going

Updated as on 15.02.2021

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
	Station				
2.	Design and separation of ground nut pod separator	RuTAG IIT Madras	1 Year	1,03,000	On- going
3.	Imposing severe plastic deformation on CP-Ti for producing ultrafine grain through repetitive corrugation and straightening technique for biomedical applications	Institution of Engineers (India)	6 Months	30,000	On- going
4.	Design and Development of Dehydrating device for continuous processing of herbal leaves Project ID: DST/SSTP/2018/161	Department of Science and Technology under SSTP	June 2019	15,75,010	On- going
5.	Imposing severe plastic deformation on CP-Ti for producing ultrafine grain through repetitive corrugation and straightening technique for Biomedical applications	Institution of Engineers (India) Kolkatta	Aug 2019	30,000	Completed
6.	Development of smart humaniod flexo grab Project ID: R.4/2/UG/2018-19/RDUG2018035 [Permanent ID: UG2019032]	Institution of Engineers (India) Kolkatta	Dec 2018 - May 2019	20,000	Completed
7.	Improving Productivity of solar still by using Heat	Tamilnadu state council for science and technology	Dec 2018- April 2019	7,500	Completed

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S.No.	Title of the project	Funding Agency	Duration	Amount	Status
	pipes Project ID: EME004	(TNCST),Chennai-			
8.	Design and Development of Adiabatic De-humidification System for Drying Herbal Leaves	Institution of Engineers (India) Kolkatta [Ref:R.4/2/UG/2016-17/RDUG2016163]	Nov 2016 - June 2017	50,000.00	Completed
9.	Sequestration of Cumulative CO <sub>2</sub> Emission through Critical Analysis of End Use Energy Efficiency in Heterogeneous Mixture of Process Industries	Inter-Sectoral Science & Technology Advisory Committee (IS-STAC) Division, Department of Science and Technology (DST), New Delhi	Jan 2012 – Dec 2015	18,00,000.00	Completed
10.	Intelligent System for fault diagnosis in Gear Trains	Institution of Engineers (India) Kolkatta	2008 - 2009	40,000.00	Completed

## 6 Ph.D. Guidance

Sl. No.	Scholar Name	University	Topic	Status
1.	C.Gururaj	Anna University	Analysis on Fracture Behaviour of Metal Matrix Composites	Registered in the year 2018
2.	M.Pethuraj	Kalasalingam University	Some studies on Sillimanie Reinforced Aluminium Metal Matrix Composites	Awarded in the year 2019
3.	A. Maniram Kumar	Kalasalingam University	Assessment of Risk in Auto LPG Dispensing Facilities: A Socio Technical Critical System	Awarded in the year 2016
4.	P. Ganesan	Kalasalingam University	Sequestration of CO <sub>2</sub> emission through critical analysis of end use energy efficiency in heterogeneous mixture of process industries	Awarded in the year 2015
5.	S. Rajesh	Kalasalingam University	Processing, Performance Characteristics of Redmud Reinforced Aluminum Alloy Metal Matrix Composites	Awarded in the year 2014
6.	N. Rajini	Kalasalingam	Investigation on	Awarded

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		University	Performance Studies of Naturally Woven Coconut Sheath/Mmt Clay Hybrid Polymer Composites	in the year 2013
7.	M. Thirugnanasambandam	Kalasalingam University	Investigation on Energy Consumption and CO <sub>2</sub> Emission Reduction in Industries	Awarded in the year 2013
8.	P. Pitchipoo	Kalasalingam University	Design and Development of intelligent decision support systems for Supplier Evaluation and Selection in Process Industries	Awarded in the year 2012

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

Sl. No.	Title of the event	Organized by	Date	
			From	To
1.	NITTT – Orientation Training Programme for Mentors	National Initiative for Technical Teachers Training	01.02.2021	05.02.2021
2.	Weld Overlay Solutions for Wear Protection	Indian Welding Society, Trichy	21.01.2021	---
3.	116th ISTE Executive Council Meeting	ISTE, New Delhi	29.12.2020	---
4.	Entrepreneurial Orientation and New Venture Success	Indo Universal Collaboration for Engineering Education (IUCEE)	11.11.2020	---
5.	Role of Faculty in Challenging Situation	Training and Placement Cell in association with RIT-ISTE Faculty Chapter, Ramco Institute of Technology	26.07.2020	---
6.	Preparing for Post-Pandemic Education for Academic Leaders		10.06.2020	----
7.	Webinar titled "Education 4.0 - The Future of Learning in the Pandemic World"	Internal Quality Assurance Cell, P.S.R.Engineering College, Sivakasi	22.05.2020	----
8.	"International Web Conference on Science, Engineering & Technology (IWCSET-2020)"	Society of Technologically Advances Materials of India (STAMI)	15.05.2020	16.05.2020
9.	Webinar on "How to Formulate a Research Problem"	RIT Research Council in association with ISTE Faculty Chapter, Ramco Institute of Technology	13.05.2020	----

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Sl. No.	Title of the event	Organized by	Date	
			From	To
10.	ATAL sponsored FDP on “Artificial Intelligence”	Indian Institute of Information Technology, Nagpur.	24.04.2020	28.04.2020
11.	Webinar on “How to publish a high Quality Technical Journal Paper”	Harish Mysore, Director-IEEE India Operations	20.04.2020	----
12.	Webinar Series on "The Future of making	Skycampus: Digital Knowledge Series 1 ICT Academy	14.04.2020	18.04.2020
13.	Webinar on "Introduction to VMWare Cloud"	ICT Academy	11.04.2020	----
14.	Two-day program on “Policy Meeting”	SAE India Southern Section at Sterling Holidays Resort, Kodaikanal.	04.01.2020	05.01.2020
15.	One day awareness workshop on Student Induction program for Principals	Anna University, Chennai	22.02.2019	----
16.	One day Workshop on Assessment and Accreditation (Prashnottara Malika)	NAAC Office, Bengaluru	09.01.2019	----
17.	Three days Faculty Development Programme on Entrepreneurship Development organized by the PMO-IEDP	Anna University Regional Campus, Tirunelveli	22.08.2017	24.08.2017
18.	Faculty Development Programme on “Human Values and Professional Ethics”	Ramco Institute of Technology	30.10.2017	12.11.2017
19.	Demonstration of NBA related Software	P.A.C.R.Polytechnic College	08.11.2016	----
20.	One day Workshop on “Highly Effective Teaching & Learning Methodologies”	Ramco Institute of Technology	04.06.2016	----
21.	Awareness and Internal Audit Training Program, TUV	Ramco Institute of Technology	18.12.2015	19.12.2015
22.	Faculty Development Programme on “Training the Trainers”	Ramco Institute of Technology	22.06.2015	23.06.2015
23.	FDP on “Essentials of Teaching- Learning Process”	Ramco Institute of Technology	20.06.2015	----
24.	FDP on “Introspection of Teaching Learning Process’	Ramco Institute of Technology	23.12.2014	30.12.2014

Sl. No.	Title of the event	Organized by	Date	
			From	To
25.	Workshop on Outcome Based Accreditation Procedures and Policies of NBA	SRM University, Chennai	18.07.2013	19.07.2013
26.	National Workshop on Quality Assurance and Accreditation	Hotel Ashok, Chanukyapuri, New Delhi	12.05.2013	13.05.2013
27.	Orientation Workshop for Training and Identification of NBA Master Trainer/Evaluators	SVKM's Narsee Monjee Institute of Management Studies [NMIMS], Shirpur	15.03.2013	17.03.2013
28.	Workshop for training and identification of Master Trainers on new Outcome based Accreditation Process	KIIT University, Bhubaneswar	31.08.2012	02.09.2012
29.	Special workshop on New Accreditation Process in UG Engineering Programme	Thiagarajar College of Engineering, Madurai	12.07.2012	----
30.	National Seminar & Exhibition on Non Destructive Evaluation	ISNT Chennai Chapter at Chennai Convention Centre, Chennai	07.12.2011	10.12.2011
31.	Faculty Development Program - MISSION 10X Advanced Workshop	Wipro, Chennai	15.12.2011	16.12.2011
32.	Faculty Development Program - MISSION 10X Workshop on High Impact Skills	Wipro, Chennai	23.05.2011	24.05.2011
33.	Educator's Day 2008 the annual technical forum for faculty and research scholars	NI Instruments, Bangalore	21.11.2008	----
34.	IEEE sponsored two days workshop on "Soft Computing Techniques"	Kalasalingam University, Krishnankoil	10.08.2007	11.08.2007
35.	ISTE programme on "Evolutionary Computation Techniques"	AKCE-ISTE Chapter	22.10.2005	----
36.	ISTE workshop on "Genetic algorithm for Engineering Optimization"	AKCE-ISTE Chapter	11.03.2005	----
37.	One Week Faculty Development Programme on "Total Quality Management"	Anna University, Chennai	16.11.2004	21.11.2004
38.	AICTE-ISTE programme on "Fuzzy Logic in Engineering"	Visveswaraya Institute of Technology, Bangalore	22.03.2004	26.03.2004

Sl. No.	Title of the event	Organized by	Date	
			From	To
39.	One Week Faculty Development Programme on “Engineering Metrology”	Anna University, Chennai	07.06.2004	12.06.2004
40.	Workshop on “Evolutionary Computation”	Department of Electrical and Electronics Engineering, A.K.C.E	17.01.2004	----
41.	One Week Faculty Development Programme on “Automobile Engineering”	Anna University, Chennai	24.11.2003	29.11.2003
42.	Workshop on “Computational Intelligent Techniques”	Department of Electrical and Electronics Engineering, A.K.C.E	30.08.2003	----
43.	Indo-German Technical Symposium on “Automotive Systems and Industrial Engineering”	Department of mechanical engineering, A.K.C.E.	03.03.2003	04.03.2003
44.	Certificate course on “Pro/Engineer”	Impressys software solutions, Bangalore	24.09.2001	24.09.2001
45.	AICTE-ISTE short term training programme on “New Trends in Design and Manufacture of Tooling for Precision Metal Forming Process”	PSG College of Technology	15.11.1999	27.11.1999
46.	Certificate course on “CADD Re.14”	CADD Centre Training Services, Trichy	March 1999	----
47.	State Level Two days workshop on “Research and Methods in Technology and Management”	Mepco Schlenk Engineering College	21.05.1999	22.05.1999
48.	Certificate course in “C and C++”	A.K.C.E.	22.01.1999	23.04.1999
49.	AICTE-ISTE short term training programme on “CAD in Engineering”	A.M.A.College of Engineering, Vadamavandal	22.11.1998	05.12.1998
50.	“First Aid Course”	St.John Ambulance Association	November 1996	----
51.	Short term course on “Unix& C” organized by Computer Science & Engineering Association	Regional Engineering College	02.09.1996	14.09.1996
52.	“NSS Orientation course”	Avinashilingam Education Trust Institutions, Training and Orientation centre, Coimbatore	17.07.1995	26.07.1995

Sl. No.	Title of the event	Organized by	Date	
			From	To
53.	ISTE short term course in “Heat Treatment: Principles, Processes & Problems”	MACT-R.E.C. Bhopal	05.07.1993	18.07.1993

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

Sl.No.	Title of the event	Organized by	Date	
			From	To
1.	Waste to Reuse-Redmud for Industrial Applications	Department of Mechanical Engineering in association with SAEINDIA Collegiate Club of RIT & RIT-Mechanizo	21.01.2021	---
2.	Case Studies In Deep Learning- Hands-On Session Using Google Co-Lab	Automation and Robotics Club of RIT in association with RIT ISTE Students Chapter, RIT IE(I), Institution's Innovation Council, RIT Mechanizo	16.10.2020	17.10.2020
3.	Building Smart Automation Design	Automation and Robotics Club of RIT in association with RIT ISTE Students Chapter, RIT IE(I), Institution's Innovation Council	05.08.2020	07.08.2020
4.	Artificial Intelligence for Beginners	Automation and Robotics Club of RIT in association with RIT ISTE Students Chapter, RIT IE(I), RIT Mechanizo	15.07.2020	17.07.2020
5.	Entrepreneurship & Stress Management	Department of Mechanical Engineering, Ramco Institute of Technology in association with Institution of Engineers (India) student chapter & Institution’s Innovation Council	08.07.2020	10.07.2020

Sl.No.	Title of the event	Organized by	Date	
			From	To
6.	Short Term course on "Finite Element Analysis"	Department of Mechanical Engineering, Ramco Institute of Technology in association with RIT Mech CAD Centre and Institution of Engineers (India) student chapter	22.06.2020	07.07.2020
7.	Industrial Applications for Z & Y Gen Engineers	Department of Mechanical Engineering in association with IE(I), IWS & SAE student chapter	08.06.2020	10.06.2020
8.	Employability Opportunities in TVS Brakes India & FLSmidth	Department of Mechanical Engineering in association with Training and Placement cell and Institution Innovation Council	02.06.2020	03.06.2020
9.	Seminar on "Strategies for Energy Conservation and Environment Protection"	Ramco Institute of Technology	07.08.2018	----
10.	Two day Workshop on "Non Destructive Testing and Materials"	Ramco Institute of Technology	15.03.2018	16.03.2018
11.	One day Awareness program on "SAR Preparation for NBA Accreditation"	Ramco Institute of Technology	02.12.2017	----
12.	National Level Workshop on "ArduBotics Robotics"	Ramco Institute of Technology jointly organized with IIT Varanasi and Innovians Technologies, Noida	28.07.2017	29.07.2017
13.	Second National Conference on Innovations in Engineering, Science and Technology	Ramco Institute of Technology	24.03.2017	25.03.2017
14.	Anna University approved Faculty Development Training Programme (FDTP) on ME6603 FINITE ELEMENT ANALYSIS	Ramco Institute of Technology (Anna University)	17.12.2016	23.12.2016

Sl.No.	Title of the event	Organized by	Date	
			From	To
15.	One day Workshop on “Highly Effective Teaching & Learning Methodologies”	Ramco Institute of Technology	04.06.2016	----
16.	One day Workshop on “DRONE: UNMANNED AERIAL VEHICLE	Ramco Institute of Technology	01.03.2017	----
17.	“TECHYUGA” Second State Level Technical Symposium	Ramco Institute of Technology	19.08.2016	20.08.2016
18.	“TECHYUGA” First State Level Technical Symposium	Ramco Institute of Technology	28.08.2015	29.08.2015
19.	Faculty Development Training Programme on GE6152- Engineering Graphics	Ramco Institute of Technology	09.06.2015	11.06.2015
20.	National Conference on Innovations in Engineering, Science and Technology (NCIEST)	Ramco Institute of Technology	06.03.2015	07.03.2015
21.	Workshop on Intellectual Property Rights (IPR) Awareness Programme	Ramco Institute of Technology	23.08.2014	----
22.	National workshop on “Design and Development of IC Engine powered RC Cars”	Kalasalingam University	31.03.2012	----
23.	National workshop on “Clean Energy for Green Environment”	Kalasalingam University	24.02.2012	25.02.2012
24.	National workshop on “Challenges and Innovative practices in Automotive Technology”	Kalasalingam University	04.02.2012	----
25.	Workshop on Emerging Trends in Industrial Safety Engineering (ETISE’11)	Kalasalingam University	14.10.2011	----
26.	Workshop on Recent Advances in Machining (RAM’11)	Kalasalingam University	17.09.2011	----

Sl.No.	Title of the event	Organized by	Date	
			From	To
27.	Workshop on Research Issues in Reinforced Materials	Kalasalingam University	27.08.2011	----
28.	National level Technical Symposium TRANS-MISSION'10	Department of Mechanical Engineering and Instrumentation & Control Engineering, Kalasalingam University	29.10.2010	----
29.	Defence Research and Development Organization [DRDO] sponsored workshop on Supply Chain Management [WSCM 2010]	Defence Research and Development Organization [DRDO]	15.04.2010	16.04.2010
30.	First National Conference on Challenges and Innovative Practices in Design, Manufacturing & Materials (NCCIPDMM-2008)	Department of Mechanical Engineering, Kalasalingam University, sponsored by Department of Science and Technology, New Delhi	12.03.2008	13.03.2008

## 9. Online Courses

Sl.No.	Course title	University	Date
1.	Introduction to Differential Equations	Massachusetts Institute of Technology Cambridge, USA	2019-20 (Odd Sem)
2.	Multi Variable Calculus	Massachusetts Institute of Technology	2019-2020
3.	Vector Calculus for Engineers	The Hong Kong University of Science and Technology	June 2020
4.	Intellectual Property Rights: A Management Perspective	Indian Institute of Management Bangalore	August 2020
5.	Transfer Functions and the Laplace Transform	Massachusetts Institute of Technology	September 2020
6.	Operations Research: an Active Learning Approach	The Hong Kong Polytechnic University	September 2020
7.	Calculus 1C: Coordinate Systems & Infinite Series	Massachusetts Institute of Technology Cambridge, USA	12.05.2019
8.	Momentum and Energy	Massachusetts Institute of Technology Cambridge, USA	19.01.2019
9.	MITx.18.01.2x: Calculus 1B: Integration	Massachusetts Institute of Technology Cambridge, USA	09.03.2018
10.	MITx:18.01.1x Calculus 1A: Differentiation	Massachusetts Institute of Technology Cambridge, USA	15.09.2017
11.	A Hands-on Introduction to Engineering Simulations	Cornell University, New York	13.12.2017

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Sl.No.	Course title	University	Date
12.	Research Methods: An Engineering Approach	University of the Witwatersrand Johannesburg	2016-17
13.	Introduction to Engineering Mechanics	Georgia Institute of Technology	26.05.2016

#### 10. Patents filed/awarded

Sl. No.	Title of the Invention	Application Number	Date of filing	Status	Date of Publication
1.	Vehicle Accident Detection and Reporting System	202141001139	08.01.2021	Published in Patent Journal	22.01.2021
2.	Anchor Bolt	202041050850	23.11.2020	Published in Patent Journal	4.12.2020
3.	Manually used effortless screwdriver	202041050851	23.11.2020	Published in Patent Journal	4.12.2020
4.	Pomegranate Peeling Machine	202041050506	20.11.2020	Published in Patent Journal	4.12.2020
5.	Manually operated wheelchair with setup for moving patients from seat to bed and vice versa	202041050519	20.11.2020	Published in Patent Journal	4.12.2020
6.	Oil Spill Segregating Rover	201941040308	04.10.2019	Published in Patent Journal	18.10.2019
7.	Musa – Holder	201941040291	04.10.2019	Published in Patent Journal	18.10.2019
8.	Manually Operated Geared Stretcher for Effortless Shift of wounded or injured patients to bed	20194100301	04.10.2019	Published in Patent Journal	18.10.2019
9.	Kanaeba Crane	201841016885	04.05.2018	Published in Patent Journal	17.05.2019
10.	Anti-Supply Hippo Intelligence Valve	201841016882	04.05.2018	Published in Patent Journal	14.09.2018
11.	Solar Based Portable Water Purifier	201741027730	04.08.2017	Published in Patent Journal	10.08.2018

#### 11. Membership in Professional societies

- Fellow Member, Institution of Engineers (India), Kolkatta
- Life Member, Indian Society for Technical Education (ISTE), New Delhi.
- Life Member, National Safety Council (NSC), India
- Life Member, Safety Engineers Association SEA INDIA, Chennai.
- Life Member, Society for Reliability & Safety, BARC, Mumbai

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- Member, Society of Automotive Engineers (SAE), India.

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

- Supervisor Recognition (Ref.No.24.02.17) – Ph.D/M.S (By Research) Programme, Anna University, Chennai.
- Advisory Committee member for the Indo-Brasil Bilateral International Conference on Advanced Materials and Manufacturing (ICAMM 2015), held in Cape Institute of Technology, Tirunelveli on March 27-28, 2015.
- BoS Member, Department of Mechanical Engineering, Veltech University, Chennai
- Bos Member, Department of mechanical Engineering, P.S.R.Engineering College, Sevalpatti, Sivakasi
- Member, Engineering Accreditation Evaluation Committee [EAEC] of National Board of Accreditation (NBA), New Delhi, 2013-2014.
- Programme Evaluator, Mechanical Engineering Programme, National Board of Accreditation (NBA), New Delhi, 2013-2014.
- Member, Documentation Team, National Board of Accreditation (NBA), New Delhi, 2013-2014.
- Member, Documentation Team, Rashtriya Uchchar Shiksha Abhiyan (RUSA), a Centrally Sponsored Scheme of the MHRD, Government of India, New Delhi, 2014.
- Organizing Chair, Second International Conference on Advanced Manufacturing and Automation (INCAMA 2013) conducted during March 28-30, 2013 at Kalasalingam University, Krishnankoil, Tamilnadu.
- Guest Editor, INCAMA2009 Special Issue: International Journal of Computer Aided Engineering and Technology (IJCAET) [Inderscience publishers], Volume 3 – Issue 5/6 – 2011.
- Organizing Chair, International Conference on Thermal International Conference on Thermal Energy and Environment (INCOTEE 2011) conducted during March 24 - 26, 2011 at Kalasalingam University, Krishnankoil, Tamilnadu.
- Organizing Secretary, First International Conference on Advanced Manufacturing and Automation (INCAMA 2009) conducted during March 26-28, 2009 at Kalasalingam University, Krishnankoil, Tamilnadu.

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

### **RESOURCE PERSON**

- Delivered a lecture on “Delivering Outcome Based Education (OBE) in Management Education: Objectives, Best Practices and Measurement of Outcomes” organized by Saintgits Institute of Management Pathamuttam, Kottayam, Kerala on 15 Dec., 2020.

- Delivered a lecture on “Delivering Outcome Based Education (OBE) in Management Education: Objectives, Best Practices and Measurement of Outcomes” organized by Saintgits Institute of Management Pathamuttam, Kottayam, Kerala on 24 Nov., 2020.
- Invited as a chief guest for the inauguration of AICTE-ISTE Induction/Refresher Programme titled as “Latest Innovations and Technological Advancement in Concrete Technology” organised by Kalasalingam Academy of Research and Education, Krishnan kovil on 23 Nov., 2020.
- Delivered a Lecture on the Topic “Outcome Assessment and Attainment in OBE” in an Independence Month Celebration organized by JCT Polytechnic College, Coimbatore on 13 Aug., 2020.
- Delivered guest lecture on “Importance of stakeholders with effective feedback and survey systems” organized by One week FDP on “Outcome Based Education Implementation towards Accreditation” at Kalasalingam University on 13.12.2019.
- Chief Guest for “**ISTE Student Chapter**” Inauguration to Lakshmi Ammal Polytechnic College, Kovilpatti on 09.03.2020.
- Attended EC & SMC, ISTE TN Section Meeting **at** Thiagarajar Polytechnic College, Salem on 16.02.2020.

#### **ADMINISTRATIVE POSITIONS:**

- SAE Management Committee Member (Since 2020)
- ISTE Executive Member (2020 – 2024)
- NAAC Coordinator, Ramco Institute of Technology since 2018.
- Management Representative-ISO 9001-2015-Implementation and Certification at Ramco Institute of Technology, since 2016.
- Faculty Advisor – RIT-ISTE Faculty Chapter, since 2014.
- Member, Planning and Monitoring Board, Academic Council, Board of Studies, Examination Monitoring and Grievances Redressal Committee (EMGRC), Department Research Committee, Kalasalingam University.
- Admission Officer, Kalasalingam University, 2011-2012
- Member, Board of Management, Kalasalingam University, 2007-2009
- Workshop Superintendent, Department of Mechanical Engineering, Kalasalingam University, 2002-2009.
- President, AKCE-KLU Alumni Association, Kalasalingam University since January 2008
- NSS Program Officer, Kalasalingam University from 2007 to 2008

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- Secretary, AKCE Alumni Association, Arulmigu Kalasalingam College of Engineering, from 1994 to 1997.

#### **CURRICULUM DEVELOPMENT:**

- Developed the post graduate curriculum for the M.Tech Programme in ‘Industrial Safety Engineering’ at Kalasalingam University from 2012 and also established the Industrial safety Engineering Laboratory for this programme.
- Developed the under graduate curriculum for the B.Tech Programme in ‘Manufacturing Engineering’ at Kalasalingam University from 2012.

#### **RESEARCH LABORATORY ESTABLISHMENT:**

- Department DST-FIST Coordinator, Center For Advanced Materials and Manufacturing: Materials Processing Laboratory, Advanced Machining Laboratory and Machine Dynamics & Condition Monitoring Laboratory. Research Grant – 125 Lakhs

#### **REVIEWER:**

- International Journal of Applied Soft Computing
- International Journal of Experimental Techniques
- International Journal of Hazardous Materials