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WORK HISTORY

ACADEMIC – 22 years 8 months

Institute	Designation	Experience in Years
Sethu Institute of Technology, Madurai	Professor	11 years 1 month
Sethu Institute of Technology, Madurai	Associate Professor	1 year 8 months
Sethu Institute of Technology, Madurai	Assistant Professor	3 years
Sethu Institute of Technology, Madurai	Senior Lecturer	11 months
S.Veerasley Chettiar College of Engg. and Technology, Tirunelveli	Senior Lecturer	6 years

- PG Programme Head
- Academic Coordinator
- Developed courses in line with the curriculum requirements of the Mechanical Engineering
- Monitored students' academic progress and referred students who were struggling to campus resources
- Advised and mentored undergraduate students placed on academic probation
- Chaired students' thesis committee each year
- Wrote course materials such as syllabi, homework assignments and handouts
- Demonstrated a continued commitment to undergraduate teaching through full participation in the college community
- Fostered students' commitment to lifelong learning by connecting course materials to broader themes and current events
- Taught introductory and upper-level courses

INDUSTRY -- 11 years

Organization	Position	Experience in Years
Rabi-Run Refrigeration Private Limited-Pondicherry	Production Manager	2 years 7 months
Sathiesh Engineering and Gear Industries Coimbatore	Production Engineer	5 years 1 month
SAE Casting Private Limited-Madras	Fabrication Engineer	3 years 4 months

EDUCATION

Degree	Institution	Year
Ph.D. (Nano bio composites)	Anna University, Chennai	2012
Master of Technology (Machine Design)	Indian Institute of Technology Madras (IITMADRAS)- Chennai	2006
Bachelor of Engineering (Mechanical Engineering)	Madurai Kamaraj University, Madurai	1990

FIELDS OF RESEARCH INTEREST

- Nano bio composites
- Composite Materials
- Welding

EXPERIENCE IN RESEARCH

- Research in MepcoSchlenk Engineering College: Worked as a Doctoral ResearchFellow (Part-time) in the Department of Mechanical Engineering
Ph.D Thesis: Experimentation on Mechanical Behavior of Ceramic reinforced nano hydroxyapatite-Gelatin Composites for Bone Grafting
- Research in Indian Institute of Technology, Chennai (IITMADRAS): Worked as a Post-Graduate Scholar in theDepartment of Mechanical Engineering
PG Thesis: Design and Analysis of Dental Jaw Simulator
- Recognized Research Supervisor for Anna University, Chennai
- **Guided Ph.D.scholars:10**

Thesis Titles:

1. Experimental Investigation of Mechanical behavior and Optimization of GTAW Process parameters on Dissimilar Titanium and Aluminium Alloy Joints
 2. Experimental investigation on similar and dissimilar welding of Inconel 600 and AISI 316L using ATIG WELDING process
 3. Experimental Investigation and CFD analysis of Heat Transfer in Automobile Radiator using nanocoated tubes by thermal spray method
 4. Investigations on Influence of particle size on workability and MoS₂ hybridization on tribological behaviour of Mg-B₄C composites
 5. Investigations on crystallinity of Reinforced polyacetal composite and its Effect: warpage, mechanical, thermal, Optical properties of thin wall injection Moulded parts
 6. Extraction of Hydroxyapatite from Snail Shell and Experimentation on Mechanical behaviour of Hybrid Composite for Bone Grafting
 7. Performance Characteristics of Aluminium and Fibre Laminate Composites
 8. Assessment on mechanical and tribological analysis of natural fiber reinforced polyester filled with dual filler composite: optimization using Taguchi and grey relational analysis
 9. Experimental Investigation of thermal energy storage system with PCM based nanofluids using solar energy
 10. Characterization and the mechanical property determination of *Sesuvium portulacastrum* Roxburghiana leaf fibers and polymer composites
- Guiding 2 Ph.D. research scholars
 - Doctorial Committee Member for Ph.D. research scholars.

FUNDS RECEIVED

- Grant for Organizing Conference (GOC) – GTMTS- 2023 (National-Onsite Conference)- **Rs- 2, 71,000**, All India Council for Technical Education (New Delhi)- 2021-2022 GRANT_NUMBER: F.No 67-8/IDC/GOC/POLICY-5/2021-22 dated 24.02.2022
- Modernization and Removal of Obsolescence in Material Testing Laboratory- **Rs 19.07 Lakhs**,
All India Council for Technical Education (New Delhi)

2020-05 to present | Grant

GRANT_NUMBER: F.No 84-131/RIFD/MODROB/Rural/Policy-1/2019-20

- Faculty Development Programme on Computational Fluid Dynamics in Engineering and Design- **Rs 7 Lakhs**

All India Council for Technical Education (New Delhi)

2017-11 to 2017-12 | Grant

- MODROBS- Metallurgy Lab- **Rs. 9.95 Lakh**

All India Council for Technical Education (Madurai, Tamilnadu)

2012-03 to 2013-07 | Grant

PUBLICATIONS- Link

h-index : 19 i10-index : 24 Citations: 1091 as on 07.03.2024

1. Gopi Krishna M, Kailasanathan C, Nagaraja Ganesh B, "Physico-chemical and morphological characterization of cellulose fibers extracted from Sansevieria roxburghiana Schult. & Schult. F leaves", Journal of Natural Fibers, 19(9), 3300-3316, 2022 <https://doi.org/10.1080/15440478.2020.1843102>
2. C Kailasanathan, M Gopi Krishna, B Nagaraja Ganesh, "Investigation of Mechanical and Thermal Conductivity Properties of Sansevieria Roxburghiana Leaf Fibers Reinforced Composites: Effect of Fiber Loading", Journal of Natural Fibers, 1-14, 2022, <https://doi.org/10.1080/15440478.2022.2095547>
3. G Karuppiah, KC Kuttalam, N Ayrilmis, R Nagarajan, "Tribological Analysis of Jute/Coir Polyester Composites Filled with Eggshell Powder (ESP) or Nanoclay (NC) Using Grey Rational Method", Fibers 2022, 10(7), 60; <https://doi.org/10.3390/fib10070060>
4. A. Perumal, C. Kailasanathan, Balasubramaniam Stalin, S. Suresh Kumar, P. R. Rajkumar, T. Gangadharan, G. Venkatesan, N. Nagaprasad, V. Dhinakaran, and Ramaswamy Krishnaraj, "Multiresponse Optimization of Wire Electrical Discharge Machining Parameters for Ti-6Al-2Sn-4Zr-2Mo (α - β) Alloy Using Taguchi-Grey Relational Approach", Advances in Materials Science and Engineering, Volume 2022, <https://doi.org/10.1155/2022/6905239>
5. S.Kolappan, T.Arunkumar, V.Mohanavel, K.Subramani, C.Kailasanathan, P.Kumaran, RamSubbiah, S.Suresh Kumar, "Experimental investigation on stir casted hybrid composite AA7068 with SiC and coconut shell fly ash" <https://doi.org/10.1016/j.matpr.2022.04.359>
6. K.Subramani, T.Arunkumar, V.Mohanavel, S.Kolappan, C.Kailasanathan

- B.Boopathi Rathinam, RamSubbiah, S.Suresh kumar, " Investigation on wear characteristics of Al 2219/Si3N4/Coal bottom ash MMC", <https://doi.org/10.1016/j.matpr.2022.04.325>
7. J.Vairamuthu , G.D.Sivakumar, S.Naveen Navroz, C.Kailasanathan, "Mechanical properties of casting titanium alloy matrix composites reinforced by WC and TiB₂ ceramic particulates", *Materials Today: Proceedings* , 2022, <https://doi.org/10.1016/j.matpr.2022.01.385>
 8. K Ganesan, C Kailasanathan, N Rajini, Sikiru O Ismail, Nadir Ayrilmis, Faruq Mohammad, Hamad A Al-Lohedan, Ahmed M Tawfeek, Zuheir A Issa, Daifallah M Aldhayan, "Assessment on hybrid jute/coir fibers reinforced polyester composite with hybrid fillers under different environmental conditions," *Construction and Building Materials*, 301, Pages 124117, 2021 <https://doi.org/10.1016/j.conbuildmat.2021.124117>
 9. Gangadharan, T., Kailasanathan, C., Rajkumar, P.R. et al., "Tribological and Mechanical Properties of Hybrid nHAp/ SiO₂/Chitosan Composites Fabricated from Snail Shell Using Grey Rational Grade (GRG) Analysis", *Silicon* (2021). <https://doi.org/10.1007/s12633-021-01436-2>
 10. Antony Vincent, V., Kailasanathan, C., Ramesh, G. et al. Fabrication and Characterization of Hybrid Natural Fibre-Reinforced Sandwich Composite Radar Wave Absorbing Structure for Stealth Radomes. *Trans. Electr. Electron. Mater.* (2021). DOI <https://doi.org/10.1007/s42341-021-00299-z>
 11. ST Saravanan, C Kailasanathan, Elango Natarajan, Anbarasan Ramasamy, "Crystallinity Change and Reduced Warpages on Thin Walled Parts-the Effect of Nano Fumed Silica on Polyacetal", *Silicon*, 13(12), 4611-4622, 2021 . <https://doi.org/10.1007/s12633-020-00796-5>
 12. Chidambara Kuttalam Kailasanathan, Salem Thangavel Saravanan, Elango Natarajan, Balasubramaniam Stalin, "Polyoxymethylene/talc composite: Investigation of warpage, mechanical and thermal properties for thin walled-injection molding applications," *Journal of Applied Polymer Science*, Volume 139, Issue 10 51762 <https://doi.org/10.1002/app.51762>
 13. S. Mohamed Ferozdheena, , C. Kailasanathan, , P. P. Pandian, "Experimental investigations for the effect of sonication time on nanophase change material (sodium carbonate decahydrate with alumina nanoparticles) used in solar energy storage system", *Chalcogenide Letters* Vol. 18, No. 10, October 2021, p. 565 – 583, https://chalcogen.ro/565_FerozdheenSSM.pdf
 14. C Kailasanathan, P R Rajkumar, N Rajini, G D Sivakumar , T Ramesh , Sikiru

- Oluwarotimi Ismail , Faruq Mohammad and Hamad A Al-Lohedan, "Characterization and optimization of influence of MoS₂ 4 hybridization on tribological behaviours of Mg–B₄C composites", *Bull. Mater. Sci.* 44 (3), 1-18 <https://doi.org/10.1007/s12034-021-02423-4>
15. Kannan CR, Manivannan S, Stalin B, Kailasanathan C. Metallographic Characterization of SiC-Ni-Ti Layer Reinforced on Austenitic Stainless Steel (AISI 316L) by Two-step Laser Fabrication. *Silicon*, 14, 5393-5400 <https://doi.org/10.1007/s12633-021-01305-y>
 16. Perumal A, Azhagurajan A, Kumar SS, Prithivirajan R, Baskaran S, Rajkumar PR, Kailasanathan C, Venkatesan G. Influence of Optimization Techniques on Wire Electrical Discharge Machining of Ti–6Al–2Sn–4Zr–2Mo Alloy using Modeling Approach. *Journal of Inorganic and Organometallic Polymers and Materials*. 2021 May 28:1-8.
 17. S. Dinesh Kumar, M. Ravichandran, A. Jeevika, B. Stalin C. Kailasanathan A.Karthick, "Effect of ZrB₂ on microstructural, mechanical and corrosion behaviour of aluminium (AA7178) alloy matrix composite prepared by the stir casting route", *Ceramic International*, 2021, <https://doi.org/10.1016/j.ceramint.2021.01.158>
 18. Perumal A, Kailasanathan C, Wilson VH, Kumar TS, Stalin B, Rajkumar PR. Machinability of Titanium alloy 6242 by AWJM through Taguchi method. *Materials Today: Proceedings*. 2021 Apr 24. <https://doi.org/10.1016/j.matpr.2021.04.067>
 19. Kailasanathan Chidambara Kuttalam , Ganesan Karuppiah , Murugesan Palaniappan , Carlo Santulli and Sivasubramanian Palanisamy, "Mechanical and Impact Strength of Nanoclay-Filled Composites: A Short Review", *Journal of Materials Science Research and Reviews* 7(3): 7-20, 2021 <https://www.journaljmsrr.com/index.php/JMSRR/article/view/30180>
 20. V Mohanavel, C Kailasanathan, T Sathish, V Kannadhasan, SVJ Marshal, "Modeling and fabrication of automatic blackboard dust remover", *Materials Today: Proceedings*, 2021 <https://doi.org/10.1016/j.matpr.2020.05.487> (IF: 0.151- Scopus)
 21. A Perumal, C Kailasanathan, B Stalin, PR Rajkumar, "Evaluation of EDM process parameters on titanium alloy through Taguchi approach", *Materials Today: Proceedings*, 45, 2394-2400, 2021 <https://doi.org/10.1016/j.matpr.2020.10.737> (IF: 0.151- Scopus)
 22. AJ Rajan, C Kailasanathan, B Stalin, PR Rajkumar, "Optimization of mould sand

- properties by mixing of granite powder using Taguchi method”, 37, 527-530, Materials Today: Proceedings, 2021 <https://doi.org/10.1016/j.matpr.2020.10.231>
23. B Stalin, GT Sudha, C Kailasanathan, M Ravichandran, “Effect of MoO₃ ceramic oxide reinforcement particulates on the microstructure and corrosion behaviour of Al alloy composites processed by P/M route”, Materials Today Communications 25, 101655 <https://doi.org/10.1016/j.mtcomm.2020.101655>
24. Karuppiah G, Kuttalam KC, Palaniappan M, Santulli C, Palanisamy S. Multiobjective Optimization of Fabrication Parameters of Jute Fiber/Polyester Composites with Egg Shell Powder and Nanoclay Filler. Molecules.2020 Jan;25(23):5579. <https://doi.org/10.3390/molecules25235579>
25. Suresh Pungaiah S, Kailasanathan C, “Design of a nanocoated heat exchanger working with organic nanofluids using a hybrid technique”, Transactions of the Canadian Society for Mechanical Engineering. 2020 Aug 25;45(2):308-319. <https://doi.org/10.1139/tcsme-2020-0080>
26. Sudalai Suresh Pungaiah and Chidambara Kuttalam Kailasanathan, “Thermal Analysis and Optimization of Nano Coated Radiator Tubes Using Computational Fluid Dynamics and Taguchi Method”, Coatings, Vol.10, Issue 9, Page-804, 2020 <https://doi.org/10.3390/coatings10090804>
27. V. Antony Vincent, C. Kailasanathan, V. K. Shanmuganathan, J. V. Sai Prasanna Kumar & V. R. Arun Prakash. “Strength characterization of caryota urens fibre and aluminium 2024-T3 foil multi-stacking sequenced SiC-toughened epoxy structural composite”, Biomass Conversion and Biorefinery (2020) <https://doi.org/10.1007/s13399-020-00831-w>
28. P R Rajkumar, C Kailasanathan , A Senthilkumar , N Selvakumar and A John Rajan, “Study on formability and strain hardening index: Influence of particle size of boron carbide (B₄C) in magnesium matrix composites fabricated by powder metallurgy technique”, Mater. Res. Express 7 (2020) 016597 <https://doi.org/10.1088/2053-1591/ab6c0b>
29. N Kaliappan, Kailasanathan Chidambarakuttalam, “Environment effect on microstructure properties of gas tungsten arc welding for titanium and aluminium alloy joints”, Indian Journal of Engineering & Material Sciences 27 (June,2020),757 – 763 <http://nopr.niscair.res.in/handle/123456789/55231>
30. A.Perumal. A.Azhagurajan, S. Suresh Kumar, C.Kailasanathan, R ..., “ Experimental Investigation on Surface morphology and Parametric Optimization of Ti- 6Al- 2Sn- 4Zr- 2Mo alpha-beta alloy through AWJM”, Tierärztliche Praxis 40 (1),

1681-1703 (0.388-Clarivate)

31. M Gopi Krishna, C Kailasanathan, B NagarajaGanesh , “Physico-chemical and Morphological Characterization of Cellulose Fibers Extracted from Sansevieria roxburghiana Schult. & Schult. F Leaves”, *Journal of Natural Fibers*, 2020 <https://doi.org/10.1080/15440478.2020.1843102>
32. Ganesan Karupiah, Kailasanathan Chidambara Kuttalam, Murugesan Palaniappan, Carlo Santulli and Sivasubramanian Palanisamy, “Multiobjective Optimization of Fabrication Parameters of Jute Fiber/Polyester Composites with Egg Shell Powder and Nanoclay Filler”, *Molecules* 2020, 25(23), 5579 <https://doi.org/10.3390/molecules25235579>
33. G. Chandrasekar, C. Kailasanathan and M. Vasundra , “Investigation on un-peened and laser shock peened dissimilar weldments of Inconel 600 and AISI 316L fabricated using activated-TIG welding technique", *Journal of Manufacturing Processes* 35 (September, 2018) 466–478 (<https://doi.org/10.1016/j.jmapro.2018.09.004>)
34. S. Pungaiya and C. Kailasanathan , “A Review of Surface Coating Technology to Increase the Heat Transfer”, *International Journal of Mechanical Engineering and Robotics Research*, September 2018 , Volume 7, No.5, (<http://www.ijmerr.com/uploadfile/2018/0905/20180905015739145.pdf>)
35. Ganesan. K, C .Kailasanathan, “A New Assessment On Mechanical Properties Of Jute Fiber Mat With Egg Shell Powder/Nanoclay Reinforced Polyester Matrix Composites”, *Journal of Natural Fibers*, (doi.org/10.1080/15440478.2018.1500340 , 2018)
36. S.T. Saravanan, C. Kailasanathan, “Analysis of Optimized process parameters in plastics molded part using plastics advisor”, *International Journal of Latest Technology in Engineering, Management & Applied Science, (IJLTEMAS)* Volume VII, Issue II, February 2018
37. Nandagopal. K, Kailasanathan. C, Chandrasekar. G, “ Evaluation and optimization of Joining Parameters for Dissimilar Materials of Titanium and Aluminum Alloys”, *Advances in Natural and Applied sciences*, 2017 February 11(2): pages 1-6
38. G. Chandrasekar, C. Kailasanathan, and Dhanesh Kant Verma, “Investigation on un-peened and laser shock peened Weldment of Inconel 600 fabricated by ATIG welding process”, *Materials Science & Engineering A*, 690 (2017) 405–417 (<https://doi.org/10.1016/j.msea.2017.03.008>)
39. G. Chandrasekar, C. Kailasanathan, Dhanesh Kant Verma and K. Nandagopal,

- “Optimization of Welding Parameters, Influence of Activating Flux and Investigation on the Mechanical and Metallurgical Properties of Activated TIG Weldments of AISI 316 L Stainless Steel”, Transactions of the Indian Institute of Metals, DOI: 10.1007/s12666-017-1046-5
40. K.Nandagopal, C. Kailasanathan, “Analysis of mechanical properties and optimization of gas tungsten Arc welding (GTAW) parameters on dissimilar metal titanium (6Al4V) and aluminium 7075 by Taguchi and ANOVA techniques”, Journal of Alloys and Compounds, 682 (2016) 503-516 (<https://doi.org/10.1016/j.jallcom.2016.05.006>)
 41. C. Kailasanathan and T. Gangadharan, “Influence of bio inert Silica on Mechanical Properties and their dependence on Porosity of Nanocrystalline based Hydroxyapatite/Gelatin composites synthesized by coprecipitation Method”, Journal of the Australian Ceramic Society, Volume 52[2], 2016, 52 – 61. <https://austceram.com/wp-content/uploads/2016/06/6-JACS-52-2-Kailasanathan-52-61.pdf>)
 42. C. Kailasanathan & N. Selvakumar (2016): Influence of Alumina Reinforcement on Nano-Hydroxyapatite/Bio-Polymer Composite for Biomedical Applications, International Journal of Polymer Analysis and Characterization, International Journal of Polymer Analysis and Characterization 21 (6), 554-562 (<https://doi.org/10.1080/1023666X.2016.1177702>)
 43. B. Venkatram, C. Kailasanathan, P. Seenikannan & S. Paramasamy (2016): Study on the Evaluation of Mechanical and Thermal Properties of Natural Sisal fiber/GP Composites Reinforced with Nano Clay, International Journal of Polymer Analysis and Characterization, International Journal of Polymer Analysis and Characterization 21 (7), 647-656 (<https://doi.org/10.1080/1023666X.2016.1194616>)
 44. S.Sivakumar, P.Seenikannan, R. Anandakumar, C. Kailasanathan, “Experimental Analysis of Solar Still using different Thermal Energy Storage Materials”, Asian Journal of Research in Social Sciences and Humanities Vol. 6, No. 10, October 2016, pp. 1688-1702.
 45. K. Nandagopal, C. Kailasanathan and G. Chandrasekar, “Optimization of Fatigue Strength on Dissimilar Titanium and Aluminum Alloy Joints Using GTAW through Response Surface Methodology”, International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 3, December 2016, pp. 2036-2045
 46. T. Ganesan, P. Seenikannan, and C. Kailasanathan, “Experimental Investigation of Heat Transfer Rate for Automobiles Using Natural Preservative”, The

47. G. Vairamuthu, S.Sundarapandian, C.Kailasanathan and B. Thangagiri, "Investigation On The Effects Of Nanocerium Oxide On The Performance Of Calophylluminophyllum (Punnai) Biodiesel In A Di Diesel Engine", Journal of Chemical and Pharmaceutical Sciences, Special Issue 7: 2015, Page 92, ISSN: 0974-2115
48. Ganesan.K, Kailasanathan. C, Kumarasamy.Y, "Static analysis of composite leaf spring using Naoclay", International Journal of Applied Engineering Research, Vol.10, Number 9 (2015), pp. 8022-8026
49. S.Sivakumar, P.Seenikannan, R.Anandakumar, C.Kailasanathan, "Performance Analysis Of Solar Still Using Cowdung Cakes Mixed With Coirpith", International Journal of Applied Engineering Research Volume 10, Number 19 (2015), pp.14445-14449
50. G. Vairamuthu S. Sundarapandian, C.Kailasanathan and B. Thangagiri, "Experimental Investigation On The Effects Of Cerium Oxide Nanoparticle On Calophylluminophyllum (Punnai) Biodiesel Blended With Diesel Fuel In Di Diesel Engine Modified By Nozzle Geometry", Journal of the Energy Institute DOI 89, Issue-4, vol.89, pp-668-682 (2016) (<https://doi.org/10.1016/j.joei.2015.05.005>)
51. Antony Vincent V, C.Kailasanathan, "Polymers Matrix Reinforced With Natural Fibers: A Study on Interfacial Behavior", International Journal of Applied Engineering Research, Vol.10, Number 28 (2015), pp. 21994-2200
52. P.R.Rajkumar, C.Kailasanathan, Chandru, A. Meeran @ Mohammed Ashif, I. Vijay Arasu, "Mechanical and Wear Properties of Magnesium Matrix Reinforced with Boron carbide", International Journal of Applied Engineering Research, Vol.10, Number 28 (2015), pp. 22116-22120
53. C. Kailasanathan, G. Chandrasekar, Balasubramaniam Nidhushan, K. Chenniyappan, V. Boomiraj, "Analysis Of Green Density, Sintered Density And Void Content Percentage Of Az91 D Magnesium Alloy- Fly Ash Composites Fabricated Using Powder Metallurgy Route", International Journal of Applied Engineering Research, Vol.10, Number 39 (2015), pp. 29861-29866
54. K. Ganesan, C. Kailasanathan, Y. Kumarasamy, "Analysis of Composite Leaf Spring Enhanced With Nanoparticles", Carbon – Sci. Tech. 7/4(2015)34-42
55. I. Vijayarasu, K. Chockalingam, C. Kailasanathan and M. Sivabharathy, "Optimization of Surface Roughness in Selective Laser Sintered Stainless Steel

- Parts”, International Journal of ChemTech Research, Vol.6, No.5, pp 2993-2999, Aug-Sept 2014
56. T. Ganesan, P. Seenikannan, C. Kailasanathan, “Experimental Investigation Of Performance and Emission Of Single Cylinder diesel Engine Operating on Diesel Blended with Nano Particles “ , International Review of Mechanical Engineering 8 (4), 709-714, 2014
 57. A.P. Mohan Raj, C. Kailasanathan, “Influence of carbon content on Workability and Density ratio of Sintered Iron Based Composites”, International Journal of ChemTech Research, 6 (11), 4777-4781, 2014
 58. C. Kailasanathan, A.P. Mohan Raj, N. Selvakumar, R. Narayanasamy, “Experimental investigation on workability and strain hardening behavior of Fe–C–Mn sintered composites with different percentage of carbon and manganese content”, Materials & Design, Volume 49, August 2013, Pages791-801 (<https://doi.org/10.1016/j.matdes.2013.02.002>)
 59. Kailasanathan,C., Selvakumar, N. and Vasant Naidu. “Structure and properties of titania reinforced nano-hydroxyapatite/gelatin bio-composites for bone graft materials”, Ceramics International, 38 (2012) 571-579. (<https://doi.org/10.1016/j.ceramint.2011.07.045>)
 60. Kailasanathan,C. and Selvakumar, N. “Comparative study of hydroxyapatite/gelatin composites reinforced with bio- inert ceramic particles”, Ceramic International, 38 (2012) 3569-3582. (<https://doi.org/10.1016/j.ceramint.2011.12.073>)
 61. C. Kailasanathan, Vasant Naidu, “Study of Electrical and Magnetic Properties of Praseodymium Samarium Doped Novel Magnesium Ferrite”, International Journal of Computer Applications 52(14): 37-42, August 2012.

Conferences:

1. G.Vairamuthu, C. Kailasanathan, B. Thangagiri, S.Kaneeswaran, V. Nagarajan, “Investigation on Mechanical Properties of Seashell powder reinforced matrix composites”, ISBN: 978-81-961178-7-01.
2. S.Ravi, K.Arun Balasubramanian, G. Nagaraj, C.Kailasanathan, “Investigations on thermos-physical properties of ethylene glycol-based hybrid Al₂O₃ and ZrO₂ nanofluid as coolant”, Materials Today Proceedings, 2023

PATENT PUBLISHED

Title of Invention: Processor Implemented Method for Watermarking and
Cyber Protection of Deep Learning Models

Application Number: 202141013761

Publication date: 02/04/2021

KEYNOTE LECTURE DELIVERED

- Delivered a Technical Speech on, “Finite Element Analysis - Overview” in an online webinar organized by at Sethu Institute of Technology, Kariapatti, on 15th, September, 2020
- Delivered a Technical Speech on, “Introduction to Machine Design” in an online webinar organized by at Amrita Polytechnic College, Nagercoil , on 24th, November, 2020
- Delivered a Technical Speech on, “How to start an Academic Research” at one day workshop held at Sethu Institute of Technology, Kariapatti, March,2018
- Delivered a Technical Speech on, “Finite Element Analysis”, at One Day workshop held at Sri Vidhya College of Engineering and Technology, Virudhunagar, 5th, February, 2018
- Faculty Development Programme on “Engineering Mechanics”, Sethu Institute of Technology, Virudhunagar, 2015
- Delivered a guest lecture on, “Nano Technology in Modern Trends” at Mahakavi Bharathiar College of Engineering and Technology, Tirunelveli, 2013
- Delivered a guest lecture on, “Nano Materials and its applications” at S.Veerasamy Chettiar College of Engineering and Technology, Tirunelveli, 2009

CONSULTANCY PROJECTS

- Design and fabrication of semi-automatic Machine for match sticking with wrapper”, Anu Polycraft, Madurai
- Design of profile cutting machine for tender coconut cutter”, Apex Design Center, Coimbatore

REVIEWER OF JOURNALS

- Materials Research Innovations
- Journal of Industrial Textiles
- Journal of Advances in Mechanical Engineering and Science

- Science and Technology of Advanced Materials
- Powder Technology
- Composite Interfaces
- Emerging Materials Research
- Indian Journal of Pure & Applied Physics
- Journal of Scientific Research and Reviews
- NISCAIR
- Journal of Australian Ceramic society

PROGRAMME ORGANIZED

- Co-ordinator for AICTE sponsored National Conference “GTMTS-2023” held on 23rd and 24th, March, 2023 in Sethu Institute of Technology
- Co-ordinator for online national level webinar on “Getting started with MATLAB”, held on 19th, August, 2020
- Coordinator for online national level webinar on “Engineering Materials and its Applications”, held on 17th, September, 2020
- Co-coordinator for Two Days National Workshop on, “Intellectual Property Rights” held on 8 & 9th, November, 2018 in Sethu Institute of Technology
- Co-ordinator for National Conference GTMTS-2018 held on 20th, April, 2018 in Sethu Institute of Technology
- Coordinator for AICTE sponsored Two week FDP on, ‘Computational Fluid dynamics in Engineering and Design’, held between 04.12.2017 to 17.12.2017
- Co-coordinator for AICTE sponsored one day workshop on, ‘Recent trends in Robotics’, held on November, 2017 at Sethu Institute of Technology
- Coordinator for AICTE sponsored Two-week FDP on, ‘Robot and Robot Programming’ between 11.03.2013 to 23.03.2013
- Co-coordinator for AICTE sponsored workshop on Hyper mesh & its applications from 15.3.2012 to 16.3.2012.
- Conducted Rural Awareness programme on “Intensive Computer Training” from 17.5.2010 to 21.5.2010 for school dropped out students.
- Co-ordinated Rural development programme on “Recent Trends in Manufacturing and thermal Sciences” from 17.5.2010 to 21.5.2010 for Vivekananda ITI students.
- Co-ordinated AICTE sponsored national Conference GTMTS-2010 from 22.4.2010 to 23.4.2010
- Co-ordinated National Level Technical Symposium on 18.3.2010

- Co-ordinated International Conference ICADM-2007 from 9.8.2007 to 11.8.2007
- Co-ordinated AICTE Sponsored national Conference GTMTS-2007 from 29.3.2007 to 30.3.2007
- Co-ordinated Rural Awareness programme on “Renewable Energy” from 27.2.2007 to 3.3.2007 for village peoples.

WORKSHOPS ATTENDED

- One Day Seminar On, “Book Writing” organized by Faculty Development Cell, Sethu Institute of Technology held on 7th February, 2018.
- National Seminar on, “Intellectual Property Rights”, organized by Sethu Institute of Technology on 8-9, July 2016
- Industrial Training on, “Lean Manufacturing”, in Surfing Tools, Coimbatore during 5,6, March, 2016
- National Seminar on, “Solar Energy Conversion with Nano Particles”, organized by Velammal College of Engineering and Technology, Madurai on 14-15, October, 2011
- National Seminar on, “Advances in Finite Element Analysis”, organized by Sethu Institute of Technology sponsored by DST on 16th, November, 2011
- Workshop on, “Nano Materials-Synthesis, Characterization and Applications”, Organized by Department of Mechanical Engineering, Mepco Schlenk Engineering College on April 29,2007
- Workshop on, “Internal Revenue Generation”, Organized by Department of Mechanical Engineering, Mepco Schlenk Engineering College on April 29,2007

FACULTY DEVELOPMENT PROGRAMMES ATTENDED

- AICTE sponsored Two weeks FDP on, “Digital India through solid modeling and 3D printing techniques for Indian industries”, organized by K.L.N. College of Engineering, Madurai from 06.06.2019 to 19.06.2019
- Two weeks FDP on, “Engineering Mechanics”, organized by University College of Engineering Ramnad, sponsored by Centre for Faculty Development, Anna University, Chennai during 1-22 December 2018
- NPTEL Online Certification course on, “Effective Engineering Teaching in Practice”, with Elite Category, Feb-March 2018
- Two-week FDP on, “Finite Element Analysis”, organized by University College of Engineering Ramnad, sponsored by Centre for Faculty Development, Anna University, Chennai during 1-10 December 2016
- One Week FDP on, “Process Control”, organized by Sethu Institute of Technology,

sponsored by Anna University, Chennai during 15-22, December 2014

- Two weeks FDP on, “Mathematical Modelling, Simulation and optimization Techniques”, organized K.L.N.College of Engineering, Madurai, sponsored by AICTE, New Delhi during 6-20 , November, 2013
- FDP on, “Paradigms in Recent Research Methodology”, organized by Sethu Institute of Technology, during 6-7, May 2013
- Two-week FDP on, “Latest Development in CAD/CAM” organized by ATPDC-CIPET, Madurai from 26th August to 6th November, 2013
- Two week FDP on, “Advanced Computational Fluid Dynamics in green Technology”, organized by Sethu Institute of Technology, sponsored by AICTE, New Delhi during 2-14th , December, 2013
- Two-week FDP on, “Recent Trends in Robotics & Robot Programming”, organized by Sethu Institute of Technology, sponsored by AICTE, New Delhi during 11-23, March 2013
- Two-week ISTE Workshop on, “Thermodynamics in Mechanical Engineering”, organized by Indian Institute of Technology Bombay during 14-24, June, 2011
- Two-week FDP on “Modeling, Analysis and Control of Vibration and Noise”, Organized by Department of Mechanical Engineering, Mepco Schlenk Engineering College on April 21- May 3,2008
- Two week FDP Course on, “Finite Element Analysis”, organized by B.S.Abdur Rahman Crescent Engineering College, Chennai, sponsored by Centre for Faculty Development, Anna University, Chennai during 11-23 June 2007
- One week Training Programme on, “Teaching Methodologies and Pedagogy”, organized by National Institute of Technical Teachers’ Training and Research during 6-11, December,2004
- One week FDP on, “Design of Jigs, Fixtures and Press Tools”, organized by Arulmigu Kalasalingam College of Engineering, sponsored by Centre for Faculty Development, Anna University, Chennai during 10-15 November 2003

ADDITIONAL INFORMATION

- NBA Coordinator
- NAAC Coordinator
- Member of Board studies in SBM College of Engineering and Technology, Dindigul
- Question paper setter/scrutinizer for various Institutions