

Kings College of Engineering

Department of Mechanical Engineering

Name: Dr.H.AGILAN	
Designation :	Assistant Professor
Qualification :	B.E., M.E.,Ph.D.
Area of Specialization :	I.C Engine, Fuels, Heat Transfer, Thermal, Automobiles, Heat Exchangers, Power Plants
Experience :	Teaching:18 Yrs.
	Industry:-05 Yrs
No.ofworkshop/Conferences/ FDP attended :	48
Publication :	Journal National: 01 International: 06
	Conference National: 02 International: 11
Membership :	Lifetime number of Indian Society for Technical Education,
Achievements :	Best Project Award in PG

Workshop / Conferences / FDP attended :3/11/37

PUBLICATIONS

1. H Agilan, T Pushparaj, Performance, emission characteristics of CI engines fueled with Annona seed biodiesel blends and 1-pentanol as an additive, Thermal Science, 2023.
2. H Agilan, T Pushparaj, J Rajaparthiban "Comprehensive Assessment of Performance and Emission Characteristics of Pumpkin Seed Oil with (C₂H₅)₂O and Jojoba Seed Oil with C₅H₁₂O in CI Engine' 2021.
3. H Agilan, J Rajaparthiban 'Investigation of Al6063/Sic/15P with Mg for Heat Transfer Application in Pin Fin Apparatus–An Experimental Approach' 2017.
4. . V Vijayakumar, H Agilan 'Finite Element Analysis of Welding induced Residual Stresses for Duplex Stainless Steel Weld Joint using Contour Method' 2016.
5. TLAH Richard, H Agilan 'Experimental Analysis of Heat Transfer Enhancement Using Fins in Pin Fin Apparatus.'2015.
6. H Agilan 'Performance and emission characteristics on molasses with blending agent in gasoline engine'. 2014.

BOOK PUBLICATIONS : NIL

CONFERENCES

1. International on Sustainable Technologies in Engineering and Science 'Investigation and Characteristics of AZ91 Magnesium metal Matrix Composite Using the Powder Metallurgy Process, 2025.
2. International on Sustainable Technologies in Engineering and Science 'Sustainability of Aluminum Oxide Nano Particles Blended Mahaua Biodiesel to the direct injection Diesel Engine performance and Emission Analysis, 2025.
3. International on Sustainable Technologies in Engineering and Science 'Experimental Investigation on Diesel Performance and Emission Characteristics Using Al₂O₃ Nano particles on Dual Fuel. 2025
7. International on Sustainable Technologies in Engineering and Science 'Maximizing the Hardness and Minimal Porosity of Welding Thermal Barrier Coating by Optimization of Power Composition Using the response Surface Technique. 2025.
4. Energy Analysis and Experimental study of Dual Fuel and Twin Cylinder Compression Ignition Engine By Natural Gas. 2025

5. International Conference on Emerging Trends in Engineering and Technology 'Performance And Emission Characteristics Of Ci Engine Fueled With Hybrid Biodiesel And 1 Pentanol As An Additive' National Institute of Technology Puducherry. 2024.
6. International Conference on Emerging Trends in Engineering Science and Technology' An Overview of Metal Matrix Composite Manufactured Using Powder Metallurgy. ICETEST 2024.
7. National Conference on Recent Advanced in Mechanical Engineering 'Experimental Investigation on the Performance and Emission Characteristics on Diesel Engine' 2018.
8. International Conference on Newer Engineering Concept & Technology 'Automotive Application and Mechanical Property Characterization of Sisal Fiber Reinforced Epoxy Composite Material' 2018.
9. National Conference on 'Energy and Manufacturing Scenario 'Performance and Evaluation of Thermo Electric Refrigeration by using Peltier Effect. 2019.
10. National Conference on 'Energy and Manufacturing Scenario 'Performance and Emission of CI Engine using Bio fuel with Additives. 2019.

PATENT: Nil.

EVENT ORGANISED

1. National Level Technical Symposium "MECH STORM 2K23" was organized on 11.10.2023.
2. National Level Technical Symposium "MECH 'O' DRONE 2K20" was organized on 01.10.2020.
3. National Level Technical Symposium "MECHNTRA 19" was organized on 30.08.2019.
4. Modern Manufacturing Systems NITTTR, Kolkata was organized on 18.02.2019 to 22.02.2019
5. Non Distractive Testing, Kings College of Engineering was organized on 05.08.2019

FDP Attended *Atal/NITTTR/ICT Academy programmes*

1. 5 days FDP on "Autodesk fusion 360" from 16th June 2025 Organized by ICT Academy and hosted by Government College of Engineering, Thanjavur.
2. Five Days online STTP on "Value and Ethics for Professional" NITTTR, Kolkata from 27.05.2024 to 31.05.2024
3. Five Days online FDP on Opportunities in hybrid manufacturing Technology, ATAL, GCE, Cengipatti. From 04.12.2023 to 09.12.2023.

4. Five Days online FDP on Digital Prototype Using CATIA, ICT Academy, from 27.11.2023 to 01.12.2023.
5. FDP on "Trends in 3D printing" NITTTR, Chennai from 11.09.2023 to 15.09.2023.
6. Five Days online Faculty Development Programme on "Innovative green energy generation and storage Technologies" (ATAL) organized by Department of Mechanical Engineering, MAHARAJ VIJAYARAM GAJAPATHI RAJ COLLEGE OF ENGINEERING from 02 Dec 2024 to 07 Dec 2024.
7. Five Days online Workshop on "Autodesk Fusion Fundamentals" (ATAL) organized by Department of AUTODESK, Design lab, Hyderabad at 07 Dec 2024.
8. FDP on "Opportunities in Hybrid Manufacturing Technologies" organized by ATAL during 04.12.2023 to 09.12.2023 at Government College of Engineering Thanjavur.
9. AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "IoT for Precision Agriculture and Transportation" from 2023-01-23-2023-01-28 to 2023-01-30-2023-02-03 at GOVERNMENT COLLEGE OF ENGINEERING.
10. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Challenges and Opportunities for Electric Vehicle Adoption" from 2021-07-19 to 2021-07-23 at Erode Sengunthar Engineering College.
11. AICTE Training And Learning (ATAL) Academy Online FDP on "Green Technology & Sustainability Engineering" from 2021-01-19 to 2021-01-23 at Gautam Buddha University.
12. AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2021-01-25 to 2021-01-29 at Kongunadu College of Engineering and Technology.
13. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Design, Synthesis and Characterization of Novel Materials" from 25/10/2021 to 29/10/2021 at INDIAN INSTITUTE OF INFORMATION TECHNOLOGY TIRUCHIRAPPALLI.
14. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Nutraceuticals: Basics & Beyond" from 2021-07-12 to 2021-07-16 at Bannari Amman Institute of Technology.
15. AICTE Training And Learning (ATAL) Academy Online FDP on "Training for Social Connectedness & Inspiration" from 2021-02-01 to 2021-02-05 at Ramakrishna Mission Vivekananda Educational & Research Institute Faculty of Disability Management and Special Education.
16. Online Training Programme on "Applications of Cloud Computing in Media and Internet" Conducted by NITTTR-Chennai from 05.08.2024 to 09.08.2024.

17. Online Training Programme on " Smart manufacturing" Conducted by NITTTR-Chennai from 03.07.2023 to 07.07.2023.
18. Online Training Programme on " Advances in materials and manufacturing" Conducted by NITTTR-Chennai from 31.10.2022 to 04.11.2022.
19. Online Training Programme on "Communication Skills for Professionals and Entrepreneurs" Conducted by NITTTR-Chennai from 08.11.2021 to 12.11.2021.
20. Online Training Programme on "Question Paper Authoring and Student Evaluation" Conducted by NITTTR-Chennai from 13.09.2021 to 17.09.2021.
21. Online Training Programme on "Trends in CNC Machining & Metrology" Conducted by NITTTR-Chennai from 04.10.2021 to 08.10.2021.
22. Short Term Training Programme through ICT Mode on Digital Tools for Faculty and Staff organized by NITTTR-Kolkata from 11th July to 15th July, 2022.
23. Online Training Programme on "Nanotechnology & Applications" Conducted by NITTTR-Chennai from 05.07.2021 to 09.07.2021.
24. Online Training Programme on " Management issues of laboratory and workshop classes" Conducted by NITTTR-Kolkata from 04.11.2019 to 08.11.2019.
25. Online Training Programme on " Modern manufacturing systems" Conducted by NITTTR-Kolkata from 18.02.2019 to 22.02.2019.

Other FDP programmes

26. FDP on "Advancements in Marine Engineering: Integrating Materials, Systems and Technologies for Modern Shipbuilding and Operations" organized by AMET University, Reddykuppam during 21.04.2025 to 29.04.2025.
27. Five Days online Faculty Development Programme on "Recent Innovations in Mechanical Engineering" organized by Department of Mechanical Engineering, St. Joseph's College of Engineering and Technology, A.S.Nagar, Elupatti, Thanjavur from 16 Sep 2024 to 21 Sep 2024.
28. One Day Faculty Development Programme on "Outcome Based Education" organized by the IQAC, Kings College of Engineering (Autonomous), Punalkulam on 27.08.2024.
29. Webinar on "Awareness Program on 5-S" organized by SRM Madurai College of Engineering and Technology- Madurai on 30.03.2024.
30. One week FDP on "Design Process and Applications of Additive Manufacturing" organized by EASA College of Engineering and Technology, Coimbatore on during 22.01.2024 to 27.01.2024.

31. FDP on “Future Scope of Additive Manufacturing in Industrial and Biomedical Applications” organized by Aditya Engineering College during 17.07.2023 to 21.07.2023.
32. STTP on “Computer Aided Design/ Computer Aided Manufacturing/Computer Aided Engineering” organized by Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kancheepuram during 11.05.2023 to 17.05.2023.
33. FDP on “Recent Advancement in Materials, Manufacturing and Technology” organized by Swarnandhra College of Engineering and Technology on 30.10.2023 to 04.11.2023.
34. Webinar on “Intellectual property Awareness Program” organized by NIPAM, Kolkata during 26.09.23.
35. Webinar on “Art of Writing Research Article” organized by NITTTR-Chennai during 25.08.2023.
36. Webinar on “Recent Development in Automobile technology” organized by NITTTR-Chennai during 17.08.2023.
37. Guest Lecture on “Introduction to Intellectual Property and Patent Filing Procedure” organized by CK College of Engineering and Technology during 28.07.2023.
38. Webinar on “Awareness Program on IPR Registration” organized by SRM Madurai College of Engineering and Technology- Madurai during 27.09.2023.
39. FDP on “Design, Processes and Applications of Additive Manufacturing” organized by EASA College of Engineering and Technology, Coimbatore during 22.01.2024 to 27.01.2024.
40. Webinar on “Outcome Based Education” organized by GHOSIA College of Engineering Karnataka during 23.12.2023.
41. Webinar on “Effective Research Proposal Writing for Funding” organized by GHOSIA College of Engineering Karnataka during 18.11.2023.
42. FDP on “Smart Manufacturing” organized by SRM Institute of Science and Technology, Ramapuram during 18.12.2023 to 23.12.2023.
43. Online short term training program on additive manufacturing of metallic and non-metallic components organized by IIITDM, Kancheepuram From 21.12.2022 to 27.12.2022.
44. 3 days virtual FDP programme on Computational design and dynamics, organized by Sree Sakthi engineering college from 27.01.2023 to 29.01.2023.
45. Three days national level virtual workshop on role of assessment and accreditation towards improving the quality of education organized by Kamaraj college of engineering and technology from 08.02.2023 to 10.02.2023.
46. Online Webinar on Wellbeing and Empowerment (SDG-5)-A Mind Perspective Organized by NITTTR, Chennai on 08.03.2023.

47. 1 Day Webinar on “Intellectual property Awareness Program” Organized by NIPAM, Kolkata 21.10.2022

48. 2 Days FDP on “Additive Manufacturing for Environmental Sustainability” Organized by Sri Krishna College of Engineering and Technology, Coimbatore, 24.11.2022 to 25.11.2022.

Reviewer

1. Reviewer for International Journal of Suranaree Journal of science and Technology Since 2021.
2. Reviewer for International Journal of Engineering Research in Africa Since 2022.

RESOURCE PERSON

1. Presented an Internal Staff Seminar on “Carbon Capture & Utilization in Thermal Power Plants”, organized by Department of Mechanical Engineering, Kings College of Engineering, Punalkulam on 20.03.2025.
2. Presented a topic titled “Alternative fuel”, in St. Joseph College of Engineering and Technology, Thanjavur organized by Department of Mechanical Engineering, on 16.09.2024.
3. Presented an Internal Staff Seminar on “Thermal Energy”, organized by Department of Mechanical Engineering, Kings College of Engineering, and Punalkulam on 27.03.2023.
4. Presented an ISTE Staff seminar titled “Bio fuel Production” on 06.04.2023 At the Kings College of Engineering, Punalkulam.
5. Presented an ISTE Staff seminar titled “Renewable Energy” on 04.03.2020 At the Kings College of Engineering, Punalkulam.
6. Presented an ISTE Staff seminar titled “Paper Production and Paper waste Management” on 01.03.2018 At the Kings College of Engineering, Punalkulam.

Online Courses attended

1. Value Added Course on “Compendium of Electric Vehicle Engineering” organized by Sri Ramakrishna Engineering College – Coimbatore through online mode and certified.