

FACULTY PROFILE

Personal Information

Full Name: Dr P Jagan

Designation: Assistant Professor (SG)

Official Email ID: jagan.auto@kcgcollege.com

Date of Joining in KCG: 08.12.2025



Educational Qualifications

Degree	Specialization	University / Institution	Year of Passing
Ph.D.	Automobile Engineering	Madras Institute of Technology - Anna University, Chennai	2025
M.E.	Automobile Engineering	Madras Institute of Technology - Anna University, Chennai	2017
B.E.	Mechanical Engineering	Government College of Engineering- Tirunelveli	2015

ACADEMIC PERFORMANCE

Experience

Teaching Experience	Industry Experience	Research Experience
9	0	8
Total Experience: 9		

Previous Organization

Name of the Organization	Designation	Period		Experience	
		From	To	Years	Months
MIT Campus, Anna University, Chennai - 44	Teaching Fellow	September 2018	Till Now	7	3
Velammal Engineering College-Chennai	Assistant Professor	June, 2017	April, 2018	0	11

Courses Taught

THEORY COURSES HANDLED	LAB SUBJECTS
Engineering Mechanics	Basic Mechanical and Electrical Lab
Mechanics of Solids	Automotive Engine and Chassis Components lab
Kinematics and Dynamics of Machines	Automotive Electrical and Electronic Lab
Vehicle Dynamics IC Engine Process Modelling Vehicle Technology	Mechanical Testing and IC engine lab Vehicle Dynamics Lab (PG) Transmission Lab

FDPs / Workshops Attended

Faculty Development Program

1. Faculty Development Program on “**AI-Powered Optimization Strategies for Sustainable Electric and Fuel Cell Vehicles**” at ADITYA UNIVERSITY from **21 Dec 2025 to 26 Dec 2025**.
2. **Six - Day Virtual Faculty Development** “Program on Innovations in Advanced Materials, Optimization and Sustainable Energy systems from”, 15 Dec 2025 – 20 Dec 2025.
3. **Faculty Development Program on “Sustainable Materials and Advanced Manufacturing Practices”**.
VNR Vignana Jyothi Institute of Engineering & Technology, Bachupally, Telangana.
22 September 2025 – 26 September 2025.
4. **Faculty Development Program on “Road Safety – Need of the Hour”**.
VNR Vignana Jyothi Institute of Engineering & Technology, Bachupally, Telangana.
29 July 2024 – 2 August 2024.
5. **Faculty Development Program on “Advances in Materials and Manufacturing”**.
VNR Vignana Jyothi Institute of Engineering & Technology, Bachupally, Telangana.
15 July 2024 – 19 July 2024.
6. **National Level Faculty Development Program on “Innovation, Research and IPR – Journey towards Excellence”**.
BVB’s Sardar Patel College of Engineering, Mumbai, Maharashtra.
1 March 2023 – 5 March 2023.

7. **Faculty Development Program on “Trends and Challenges in the Development of Electric and Hybrid Electric Vehicles”.**
Lendi Institute of Engineering & Technology, Andhra Pradesh, India.
14 November 2022 – 18 November 2022.
8. **Faculty Development Program for Student Induction (FDP-SI) – Level 1.**
Anna University, Chennai (AICTE).
10 June 2019 – 16 June 2019.
9. **Faculty Development Program for Student Induction (FDP-SI) – Level 0.**
Anna University, Chennai (AICTE).
13 May 2019 – 15 May 2019.
10. **Faculty Development and Training Program on GE8292 – Engineering Mechanics.**
University College of Engineering, Kanchipuram, Tamil Nadu.
18 December 2017 – 24 December 2017.
11. **Faculty Development Program on Engineering Graphics.**
KCG College of Technology, Chennai, Tamil Nadu.
21 June 2017 – 22 June 2017.

Workshop attended

1. **Prof. G.C. Garg’s Endowment Lecture on “Automobile Trends – Fuel Cell Technology”.**
MIT Campus, Anna University, Chennai, Tamil Nadu.
29 June 2022 (One Day).
2. **One-Day Workshop on “Pedagogy”.**
MIT Campus, Anna University, Chennai, Tamil Nadu.
26 June 2019 (One Day).
3. **UGC–SAP Sponsored One-Day National Seminar on “Recent Trends in Vehicle Dynamics”.**
MIT Campus, Anna University, Chennai, Tamil Nadu.
16 March 2019 (One Day).
4. **One-Day Seminar on “Exploring Patent Drafting and Filing”.**
Velammal Engineering College, Chennai, Tamil Nadu.
9 April 2018 (One Day).
5. **Virtual Hands-on Training in Automobile Engines and Components.**
Velammal Engineering College, Chennai, Tamil Nadu.
9 September 2017 (One Day).

6. One-Day Workshop on “NBA–SAR Filling and Preparedness for Assessment”.

Velammal Engineering College, Chennai, Tamil Nadu.

22 July 2017 (One Day).

SCIENTIFIC CONTRIBUTION

Online Profiles

Google Scholar :

<https://scholar.google.com/citations?user=vZW3nzUAAAAJ&hl=en>

ORCID : 0000-0002-5410-8733

Scopus ID : 57216731120

Total Number of Research paper	Citations	h-index	i10-index
7	114	4	3

Research Publications

1. **Padmanaban, J.**, Elumalai, P., Senthur, N., & Chan, C. K. (2026). Machine learning-assisted multi-objective optimization of a premixed-assisted ci engine fueled with CITRUS-derived biofuels. Applied Thermal Engineering, 296, 130673. <https://doi.org/10.1016/j.applthermaleng.2026.130673>
2. Elumalai, P. V., **Padmanaban, J.**, Senthur, N. S., Bunpheng, W., Chan, C. K., Al Awadh, M., & Hussain, F. (2026). Combustion performance and emission prediction of TiO₂ and graphene oxide nanoparticle-enhanced lemongrass oil–diesel blends using ensemble machine learning. Journal of Thermal Analysis and Calorimetry. <https://doi.org/10.1007/s10973-026-15758-z>
3. Saravanakumar, K., **Padmanaban, J.**, Lalvani, J. I., & Raja, A. S. (2026). Waste Tyre pyrolysis oil–hemp biodiesel ternary blends with graphene oxide and thermal barrier coating: CI engine performance and machine learning prediction. Scientific Reports. <https://doi.org/10.1038/s41598-026-62177-z>
4. **Padmanaban, J.**, Kandasamy, A., Venkatesan, E. P., Sura, S., Saleel, C. A., Hasan, N., & Zhenxiong, L. (2024). Sustainability study and SWOT analysis of mixed biofuel blends in engine at various injection pressure analysed by

experimentally and statistically. Scientific Reports, 14(1).
<https://doi.org/10.1038/s41598-024-79073-z>.

5. **Padmanaban, J.**, Kandaswamy, D., Joshua, P. J., & Natarajan, A. (2024). Statistical analysis of engine fueled with two identical lower aromatic biofuel blends at various injection pressure. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 46(1), 7720-7735.
<https://doi.org/10.1080/15567036.2024.2368495>
6. Narasimharaju, S., Annamalai, K., Anandkumar, G., & **Jagan, P.** (2023). Comparative study of electrical conductive coating materials on al alloy-based bipolar plates in proton exchange membrane fuel cells applications. International Journal of Vehicle Structures and Systems, 15(5).
<https://doi.org/10.4273/ijvss.15.5.18>
7. Ramalingam, K., Balasubramanian, D., Chellakumar, P. J., **Padmanaban, J.**, Murugesan, P., & Xuan, T. (2020). An assessment on production and engine characterization of a novel environment-friendly fuel. Fuel, 279, 118558.
<https://doi.org/10.1016/j.fuel.2020.118558>

Research Guidance

No. PG Projects: 1

No. UG Projects: 9

Administrative / Academic Responsibilities

- Institution Innovation Cell Coordinator
- Second Year Faculty advisor (batch 2025-2029)
- Online Course In-charge - NPTEL
- Social Media
- Club Coordinator – Auto Spark
- Department Website Coordinator