

## FACULTY PROFILE

### Personal Information

Full Name: Dr. A. Jayanth Joseph

Designation: **Assistant Professor (Senior Grade)**

Official Email ID: [jayanth.auto@kcgcollege.com](mailto:jayanth.auto@kcgcollege.com)

Date of Joining in KCG: 02.07.2025



### Educational Qualifications

Degree	Specialization	University / Institution	Year of Passing
<b>Ph.D.</b>	Internal Combustion Engines & Emission Control	MIT Campus, Anna University	2022
<b>M.E./M.Tech</b>	Automobile Engineering	MIT Campus, Anna University	2013
<b>B.E./B.Tech</b>	Mechanical Engineering	Saveetha Engineering College	2011

## ACADEMIC PERFORMANCE

### Experience

Teaching Experience	Industry Experience	Research Experience
7 Years 3 Months	1 Year 4 Months	3 Years 8 Months
Total Experience: 12 Years 3 Months		

### Previous Organization

Name of the Organization	Designation	Period		Experience	
		From	To	Years	Months
KCG college of Technology	Assistant Professor (Senior Grade)	02-07-2025	Till date		5 Months

MIT Campus , Anna university	Teaching Fellow	11-09-2018	26-06-2025	6 Years	9 Months
MIT Campus , Anna university	Research scholar	01-01-2015	10-09-2018	3 Years	8 Months
MIT Campus , Anna university	Accenture Services Pvt. Ltd.	21-08-2013	31-12-2014	1 Year	4 Months

## Courses Taught

### Undergraduate Courses:

1. Engineering Thermodynamics
2. Fluid Mechanics
3. Automotive Pollution and Control
4. Hydraulic and Pneumatic Systems
5. Manufacturing of Automotive Components
6. Engineering Graphics
7. Renewable Sources of Energy

### Postgraduate Courses:

1. Hydraulic and Pneumatic Systems
2. Engine testing laboratory

**FDPs / Workshops Attended**

- Faculty Development Programme on Employability Skills (Naan Mudhalvan), Government of Tamil Nadu, 11 March 2024 – 16 March 2024 (1 Week).
- ATAL Faculty Development Programme on Alternate Fuels, Hydrogen Energy & Environment, AICTE-ATAL, MIT Campus, Chennai, 11 December 2023 – 16 December 2023 (1 Week).
- Faculty Development Programme on Industry 4.0 and its Applications in Mechanical Engineering (Naan Mudhalvan), TANSAM, 24 July 2023 – 29 July 2023 (1 Week).
- Faculty Development Programme on Lift Installation and Maintenance, Siemens Centre of Excellence, MIT Campus, Chennai, 09 May 2022 – 13 May 2022 (1 Week).
- Industrial Training on Emission Measurement, Horiba India Pvt. Ltd., Pune, 22 November 2021 – 04 December 2021 (2 Weeks).
- UGC-Approved Faculty Development Programme on Student Induction Programme (Level 1), UGC-MHRD, 10 June 2019 – 16 June 2019 (1 Week).
- UGC-Approved Faculty Development Programme on Student Induction Programme (Level 2), UGC-MHRD, 13 May 2019 – 15 May 2019 (3 Days).
- Faculty Development Programme on Research Mastery: Thesis Writing, Grant Proposal & Research Paper Writing, Department of Sponsored Research & Consultancy, in association with IEEE KCG Student Branch, KCG College of Technology, Chennai, 07 July 2025 – 11 July 2025 (5 Days).

**FDPs / Workshops Organized**

**\*\*\* (format: Organizer Name(s). (Year). Title of the FDP/Workshop. Organized by Department/Institution, Location. Duration. Role.) \*\*\***

- Student induction Program for 2023 – 14 days (26/08/2023 to 09/09/2023), sponsored by AICTE.
- Faculty Development Program on Alternate Fuels Hydrogen Energy & Environment – 6 days (11/12/2023 to 16/12/2023), sponsored by ATAL AICTE.

- Technical seminar and workshop on BS6 NORMS and its emission technologies – 1 day (23/03/2024), sponsored by SAE INDIA.
- Technical seminar “Know your Two wheeler” – 1 day (19/07/2024), sponsored by AEA.
- Technical seminar “Automobiles and Environment” – 1 day (19/07/2024), sponsored by CEAT.

**SCIENTIFIC CONTRIBUTION****Online Profiles**

Google Scholar: BslGZFoAAAAJ

ORCID: 0000-0001-9864-1997

Scopus ID: 57189305612

Total Number of Research paper	Citations	h-index	i10-index
7	67	5	4

**Research Publications****International Journals:**

1. Joseph, A. J., Pachamuthu, S., Muthiya, S. J., & Mohan Kumar, S. (2016). Reduction of NO<sub>x</sub> emissions in diesel engines by selective catalytic reduction using dual layer catalyst configurations. Journal of Chemical and Pharmaceutical Sciences, 9(2), 789–793.
2. Mohan Kumar, S., Senthil Kumar, P., Muthiya, S. J., & Joseph, A. J. (2016). Effects of thermal barrier coating on single cylinder CI engine fuelled with diesel and biodiesel. Journal of Chemical and Pharmaceutical Sciences, 9(2), 779–784.
3. Muthiya, S. J., Senthil Kumar, P., Mohan Kumar, S., & Joseph, A. J. (2016). Investigation of effective storage capacity of lean NO<sub>x</sub> trap coated with NO<sub>x</sub> storage materials. Journal of Chemical and Pharmaceutical Sciences, 9(2), 794–797.

4. Solomon, J. M., Pachamuthu, S., Joseph, A. J., Thangavel, N., & Sathyamurthy, R. (2019). Electrochemical decomposition of NO<sub>x</sub> and oxidation of HC and CO emissions by developing electrochemical cells for diesel engine emission control. *Environmental Science and Pollution Research*, 26, 36524–36534. <https://doi.org/10.1007/s11356-019-07327-9>
5. Joseph, A. J., Pachamuthu, S., Muthiya, S. J., Solomon, J. M., & Sathyamurthy, R. (2021). Development of SCR system with direct ammonia injection and manganese–cerium–zirconia catalyst for enhancing low-temperature activity in biodiesel exhaust. *Environmental Progress & Sustainable Energy*, 40(4), e13659.
6. Joseph, A. J., Senthil Kumar, P., Mageshwaran, N., Prasad, R. V., Balakumaran, J., & Gunalan, A. (2023). Optimization of urea injection system in selective catalytic reduction system in diesel engines. *International Journal of Vehicle Structures & Systems*, 15(5), 675–679. <https://doi.org/10.4273/ijvss.15.5.1>

#### Conferences:

- **Joseph, A. J. (2013). *Optimization of aerodynamic characteristics in a hatchback car using vortex generators*. **Proceedings of the Third National Level Conference on Emerging Trends in Design, Thermal and Manufacturing (ETDTM'13)**, Saveetha Engineering College, Chennai, India, 18 April 2013.**
- **Joseph, A. J. (2013). *Optimization of aerodynamic characteristics in a passenger car using computational fluid dynamics and experimental techniques*. **Proceedings of the National Conference on Recent Trends in Manufacturing Sciences (RTMNS'13)**, Dhanalakshmi Srinivasan College of Engineering and Technology, India, 12 April 2013.**
- **Joseph, A. J. (2011). *High-speed solar operated two-wheeler*. **Proceedings of the National Conference on Future Engineering in Automobile Technology (NCFEAT-11)**, Saveetha School of Engineering, Chennai, India, 11 March 2011.**
- **Joseph, A. J. (2020). *Leg room enhancement in compact SUVs*. **Proceedings of the 2nd National Conference on Recent Development in Automobile and Mechanical Engineering**, Easwari College of Engineering, Chennai, India, 11 March 2020.**
- **Joseph, A. J. (2021). *Design and development of planetary gear based phaser for VVT actuation in IC engines*. **Proceedings of the 9th International Conference on Contemporary Engineering and Technology**, Prince Shri**

Venkateshwara Padmavathy Engineering College, Chennai, India, 11 April 2021. 🏆 *Best Paper Award*

- **Joseph, A. J.** (2024). *Optimization of urea injection in selective catalytic reduction systems in diesel engines. Proceedings of the National Conference on Innovation and Recent Trends in Automotive Technologies*, MIT Campus, Anna University, Chennai, India, 23–24 March 2024.

### Research Guidance

Details of Ph.D. Scholars: Nil

No. PG Projects: 1

No. UG Projects: 8

### Books / Book Chapters

Nil

### Funded Projects / Consultancy

S. No	Consultancy Project Title	Sponsoring Agency / Client	Date	Amount (₹ Lakhs)
1	Expert opinion on Volvo XC60 B5	State Consumer Disputes Redressal Commission	11-07-2023	0.55
2	Expert opinion on Hyundai Tucson	District Consumer Disputes Redressal Commission	10-10-2023	0.45
3	Expert opinion on Skoda Rapid	State Consumer Disputes Redressal Commission	22-01-2024	0.28
4	Expert opinion on Mercedes Benz C220 CDI	State Consumer Disputes Redressal Commission	14-02-2024	0.48
5	Expert opinion on Hero Maestro Edge	District Consumer Disputes Redressal Commission	16-05-2024	0.10
6	Expert opinion on Volkswagen Taigun	District Consumer Disputes Redressal Commission	06-09-2024	0.22
7	Expert opinion on Audi A4	District Consumer Disputes Redressal Commission	18-09-2024	0.64

8	Expert opinion on Tata Tiago	District Consumer Disputes Redressal Commission	29-11-2024	0.27
9	Expert opinion on Hyundai i20	District Consumer Disputes Redressal Commission	23-01-2025	0.32
10	Expert opinion on Tata Safari	District Consumer Disputes Redressal Commission	21-04-2025	0.29
11	Expert opinion on Tata Harrier	District Consumer Disputes Redressal Commission	16-05-2025	0.41
12	Expert opinion on Skoda Kushaq	District Consumer Disputes Redressal Commission	03-06-2025	0.29
13	Testing of Biodiesel	SRM University	10-04-2024	0.17
14	Testing of Biodiesel Blends	NIT Trichy	19-09-2024	0.35
15	Expert opinion on classification of Diesel Particulate Filters	BASF	14-05-2024	0.27
16	Expert opinion on classification of Diesel Particulate Filters	Johnson Matthey	03-10-2024	1.42
17	Certification of Lean Gas Saver as per SASO Standards	Allen & Rachel Inc., Chennai	13-12-2024	1.75
18	Audit and Certification of Oil Testing Laboratory	Triveni Earthmovers	17-02-2025	0.97
19	Expert opinion on Jaguar XF	VST Motors	22-02-2025	0.62
20	Inspection and Certification of Cesspool Tankers	Mathuranthagam Corporation	19-06-2025	0.32



## Patents / IPR

**Nil**

## Professional Memberships

**Nil**

## Awards and Recognitions

- **Best Paper Award** for the paper titled *“Design and Development of Planetary Gear Based Phaser for VVT Actuation in IC Engines”* at the **9th International Conference on Contemporary Engineering and Technology**, Prince Shri Venkateshwara Padmavathy Engineering College, Chennai, **April 2021**.

## Administrative / Academic Responsibilities

### At KCG College of Technology (Present)

1. Department Research Coordinator – Automobile Engineering  
Responsible for coordinating departmental research activities, facilitating research proposals, supporting faculty publications, mentoring students in research projects, and strengthening industry–academia collaboration within the department (July 2025 – Present).

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### At MIT Campus, Anna University (2018 – 26.06.2025)

2. Department Coordinator – NAAC (Criterion 5)  
Coordinated data collection, documentation, and compliance activities contributing to the department achieving A++ NAAC accreditation.
3. Department Coordinator – NBA (Criterion 3)  
Coordinated academic and research-related documentation and outcome mapping, contributing to the department securing NBA accreditation for a three-year accreditation cycle.
4. Key Contributor – Centre for Excellence in Automobile Technology (CEAT)  
Played a major role in establishing the Advanced Emission Testing and Research Laboratory, including procurement, installation, and commissioning of equipment with a total project outlay of ₹5 Crores.
5. Laboratory In-Charge – Siemens Centre for Excellence  
Managed the Lift Installation and Maintenance Laboratory, coordinating with Siemens for training programs, certifications, and laboratory utilization (2021 – 2025).



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6. Examination Cell Member  
Actively involved in the conduct of UG and PG examinations during May 2019, November 2019, November 2021, May 2022, May 2023, and May 2025.
  7. Faculty Advisor and Student Mentor  
Mentored undergraduate and postgraduate students in academics, projects, and professional development, fostering innovation and critical thinking.
  8. Procurement Coordinator – Laboratory Modernization  
Coordinated procurement and installation of laboratory equipment worth approximately ₹10 Lakhs under the Lab Modernization Fund (2019 – 2021).
  9. Organizer / Coordinator – FDPs, Workshops, and Technical Events Organized and coordinated AICTE–ATAL FDPs, technical seminars, workshops, and student induction programs, in collaboration with SAE India, AEA, CEAT, and Siemens.