



TAGORE ENGINEERING COLLEGE

(A Member of Tagore Group of Institutions Chennai)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

ACCREDITED BY IQAC-NAAC WITH 'A' GRADE

FACULTY PROFILE

PERSONAL DETAILS			
Name & Qualification	J JAYAKAR M.E, (Ph.D.)		
Designation	ASSISTANT PROFESSOR		
Department	MECHANICAL ENGINEERING		
Total Teaching Experience	10 YEARS		
Total Research Experience			
Total Industry Experience			
Area of Specialization	INTERNAL COMBUSTION ENGINEERING		
AICTE Faculty ID			
Email ID	jkrmech16@gmail.com		
EDUCATIONAL DETAILS			
Degree	Branch/Specialization	University	Year
UG	B.E/MECHANICAL ENGINEERING	ANNA UNIVERSITY	2012
PG	M.E/INTERNAL COMBUSTION ENGINEERING	ANNA UNIVERSITY	2014
M.Phil.			
Ph.D.			
RESEARCH/PUBLICATION DETAILS			
<u>Publications in Journal</u>			
<u>Macroscopic characteristics of palm oil and palm oil methyl ester using dimensionless analysis (2018)</u> J Jayakar K Annamalai, PV Elumalai, M Mailainathan, B Dhinesh Journal of Oil Palm Research (Malaysia)			
<u>Experimental Analysis Of Piston Bowl Geometry In Ci Engine (2020)</u> J Jayakar, Ep Venkatesan, H Varadharajan, N Masilamani SAE Technical Paper			

[Experimental investigation of friction stir welding on aluminium AA6063](#)(2021)
V Hariharan, PV Elumalai, M Nambiraj, J Jayakar, M Parthasarathy Materials Today: Proceedings 47, 6830-6834
[Effects of antioxidants to reduce the harmful pollutants from diesel engine using preheated palm oil–diesel blend](#) (2021)
PV Elumalai, B Dhinesh, J Jayakar, M Nambiraj, V Hariharan Journal of Thermal Analysis and Calorimetry, 1-15
Journal of Thermal Analysis and Calorimetry 147 (6), 4285-4301
[An experimental study on harmful pollution reduction technique in low heat rejection engine fuelled with blends of pre-heated linseed oil and nano additive](#) (2021)
PV Elumalai, D Balasubramanian, M Parthasarathy, J Jayakar. Journal of Cleaner Production 283, 124617.
[Experimental investigation to reduce environmental pollutants using biofuel nano-water emulsion in thermal barrier coated engine](#) (2021)
PV Elumalai, M Nambiraj, M Parthasarathy, D Balasubramanian. Fuel 285, 11920
[Evaluation of water emulsion in biodiesel for engine performance and emission characteristics](#) (2022)
PV Elumalai, M Parthasarathy, V Hariharan, J Jayakar
[Development and Evaluation of an AZ31 Magnesium Alloy and Eggshell Powder Composite for Orthopedic Surgical Implants](#) (2024)
S Dinesh, D Nandhakumar, V Hariharan, Pradeep Kumar AR, J Jayakar, V Sriram

Books/Chapters Published		
NIL		
Fund Received		
NIL-		
Patent Applied/ Published/Granted		
NIL		
RESEARCH GUIDANCE DETAILS		
Sl.No	University	Supervisor ID/Reference
1	Anna University, Chennai	-
2	Number of UG Scholars Guided	-
3	Number of PG Scholars Guided	-
4	NumberofPh.D.Scholars Guided	-
5	NumberofPh.D. Scholars Pursuing	-

PROFESSIONAL SOCIETY MEMBERSHIP DETAILS		
Sl.No	Professional Society Name	Member ID
	NIL	