


Faculty Profile

	Dr. P.VIJAYABALAN	Academic Credentials <ul style="list-style-type: none"> • Under-Graduation: B.E (Mechanical Engineering) – IRTT, Bharathiyar University • Post-Graduation: M.E (I.C Engineering) – CEG, Anna University • Doctoral Degree: Ph.D (Mechanical) – CEG, Anna University
Designation	Professor & Head Department of Mechanical Eineering	Experience <ul style="list-style-type: none"> • Teaching – 22 years • Industry – 2 years
E-Mail ID:	vijayabalan@hindustanuniv.ac.in	
Scopus	https://www.scopus.com/authid/detail.uri?authorId=36970325100	Research Areas <ul style="list-style-type: none"> • <i>Alternate Fuels</i> • <i>Emission Control</i> • <i>Energy</i>
Google Scholar	https://scholar.google.com/citations?user=yVxKbBoAAAAJ&hl=en	
Recent Publications		
<ol style="list-style-type: none"> 1. Kathirvel, R., Palanimuthu Vijayabalan. Assessment of Diesel Engine Performance, Combustion and Emission Characteristics with Supplementation of Neem Oil Methyl Ester along with EGR (2022) Nature Environment and Pollution Technology, 21 (2), pp. 851-866. DOI: 10.46488/NEPT.2022.v21i02.049 DOCUMENT TYPE: Article 2. Kathirvel, R., Palanimuthu Vijayabalan., Venkatesan, H. Effect of Supplementing Water Electrolyzed Hydroxyl Gas and Exhaust Gas Recirculation in the Combustion Process of a Compression Ignition Engine (2022) International Journal of Vehicle Structures and Systems, 14 (2), pp. 205-214. DOI: 10.4273/IJVSS.14.2.13 DOCUMENT TYPE: Article 3. Kathirvel, R., Palanimuthu Vijayabalan., Venkatesan, H. Combined Effect of CNG and EGR on the Performance, Emission and Combustion Characteristics of Diesel Engine in Dual Fuel mode (2022) International Journal of Vehicle Structures and Systems, 14 (2), pp. 196-204. DOI: 10.4273/IJVSS.14.2.12 DOCUMENT TYPE: Article 4. Sundar, S.P., Palanimuthu Vijayabalan., Sathyamurthy, R., Hemalatha, D., Kumar, R.S., Bharathwaaj, R., Vasanthaseelan, S., Chamkha, A. Feasibility study of neat plastic oil with TiO2 nanoadditive as an alternative fuel in internal combustion engine(2022) Journal of Thermal Analysis and Calorimetry, 147 (3), pp. 2567-2578. Cited 3 times. DOI: 10.1007/s10973-021-10657-x DOCUMENT TYPE: Article 5. Kathirvel, R., Palanimuthu Vijayabalan., Venkatesan, H. Emission, Combustion and Performance Analysis of Neem Oil Methyl Ester Blends with Compressed Natural Gas in the presence of EGR (2022) International Journal of Renewable Energy Research, 12 (1), pp. 273-283. DOCUMENT TYPE: Article 		
Patents		
1.	Muthukumaran G, Ramachandraiah Uppu and Vijayabalan P. "A Patient Essential Transport System". IP Australia Application no. 2021106704 Granted on 24.08.2021 by Australian Government Innovation Patent (AusPat), Australia	
Awards and Honours		
1.		
2.		
3.		
4.		