# **Research & Development**

The Department of Mechanical Engineering has a R&D center approved by Visvesvaraya Technology University, Belagavi.

Thrust areas of Research in the Department of Mechanical Engineering are:

- Alternative Fuels For IC Engine
- Advanced Materials
- Manufacturing Science

# Ph. D Enrollment in Research Centre

Sl.	Name of the Research	USN	Year of	Guide	Co-Guide	Title of the Thesis
No.	Scholar		Registration			
1.	Naneen Kumar R R	4RA16PMJ01	2016	Dr. Dhananjaya D A	-	Experimental Study on Effect of Additives on the Performance, Emission & Combustion Characteristics of Bio-diesel Blend Fueled CI Engine
2.	Narayanaswamy K M	4RA15PMJ02	2015	Dr. Dhananjaya D A	Dr. Ramesh D K	A Study on the suitability of Municipal Waste Plastic Oil available in India as Alternative fuel for IC Engine

### **PUBLICATIONS**

	National Conference						
Sl. No	Name of The Faculty	Description / Title of the Paper Name of Journal	ISBN/ISSN	Date of Publication			
1.	Dr. Dhananjaya D. A.	Effect on Combustion, Performance International Journal in and Emission using Biodiesel Blends and Additives – A Review Automation in Automobile Engineering	n	2020			
2.	Dr. Dhananjaya D. A.	Experimental Study on Effect of International Research Additives on the Performance and Journal of Engineering and Emission Characteristics of Biodiesel Blend Fueled CI Engine		2019			
3.	Dr. Dhananjaya D. A.	Comparative Study of Performance International Journal of Characteristics of Diesel Engine Engineering Researche Fuelled with Calophyllu Inophyllum and Management Studies and Pongamia Pinta		2017			
4.	Dr. Dhananjaya D. A.	Experimental Studies on International Journal of Performance and Emission Engineering Research and Characteristics of Fish Oil Methyl Applications Ester and its Blends at different Injection Opening Pressures in direct injection CI Engine	-	2015			
5.	Dr. Dhananjaya D. A.	An Investigation on the Performance International Journal fo	r IJIRST:2349-	2015			

		and Emission Characteristics of Innovative Research in Direct Injection Diesel Engine Using Science and Technology Milk Scum Oil as Biodiesel	6010	
6.	Dr. Dhananjaya D. A.	Experimental Study of Heat Transfer International Journal of in a Radiator using Nanofluid Engineering Development and Research	ISSN:2321- 9939	2015
7.	Dr. Dhananjaya D. A.	Study on Effect of Injection Pressure International Journal of on Performance Characteristics of Emerging Technologies in Diesel Engine Using Different Computational and Blends of Biodiesel Applied Sciences		2014
8.	Dr. Dhananjaya D. A.	Combustion Characteristics of Diesel International Scientific Engine Operating on Jatropha Methyl Journal of Science Thermal		2010
9.	Dr. Dhananjaya D. A.	Combustion and Emission International Journal of Characteristics of DI Compression Mechanical and Materials Ignition Engine Operated on Jatropha oil Methyl Ester With Different Injection Parameters		2009
10	Dr. Dhananjaya D. A.	Performance and Emission Journal of Middle Evaluation of Diesel Engine fuelled European Construction and Jatropha Oil Methyl Ester using Ceramic Coating on the Piston Head		2008

# **International Conferences**

International Conferences						
Sl. No	Name of The Faculty	Description / Title of the Paper	Name of International Conferences	ISBN/ISSN	Date of Publication	
1.	Dr. Dhananjaya D. A.	E .	on Advances in		2017	
2.	Dr. Dhananjaya D. A.	Comparative Studies of Performance, Emission and Combustion Characteristics of SAE and NCE Engine Fuelled With B20 Jatropha Biodiesel	on 'Frontiers in Mechanical Engineering,		2017	
3.	Dr. Dhananjaya D. A.	Characteristics of diesel, B100 and B20 fuel on a Thermal Barrier Coating on Piston Crown in CI engine at optimum IOP and IT	Mobility Enga Congress		2009	
4.	Dr. Dhananjaya D. A.	Performance and Emissions of Optimum Injector Opening Pressure Operating at different Injection			2009	

5.	Dr. Dhananjaya D. A.	Effect of Injection Pressure and Proceeding of the SAE Injection timing on a Semi-adiabatic INDIA International SAE No. CI engine fuelled with blends of Mobility Conference, Jatropha oil Methyl Esters", New Delhi,	2008
6.	Dr. Dhananjaya D. A.	Effect of Injection Pressure on a Proceeding of the Semi-adiabatic engine fueled with International Conference blends of Jatropha oil Methyl & XX <sup>th</sup> National Esters", Conference on IC engine and Combustion, JNTU, Hyderabad, Andhra Pradesh, India.	2007

# **National Conferences**

National Conferences						
Sl. No	Name of The Faculty		Name of National Conferences	ISBN/ISSN	Date of Publication	
1.	Dr. Dhananjaya D. A.	Experimental Study on Effect of Additives on the Performance and Emission Characteristics of Biodiesel Blend Fueled CI Engine.	Advances in Mechanical		2019	
2.	Dr. Dhananjaya D. A.	Study of Performance, Combustion and Emission Characteristics on Diesel Engine using different Biodiesel by varying Injection Parameters,			2017	
3.	Dr. Dhananjaya D. A.	Characteristics of a Low Heat Rejection Diesel Engine Fuelled Jatropha Biodiesel and its Blend B20			2009	
4.	Dr. Dhananjaya D. A.		Conference on Recent		2008	
5.	Dr. Dhananjaya D. A.	Evaluation of diesel engine with blends of Jatropha oil Methyl Ester and Diesel fuel under different	Advances in Mechanical		2008	
6.	Dr. Dhananjaya D. A.	Conditions for the production of Jatropha oil as Bio-fuel by	Proceeding of the National Conference for Research Scholars, Bagalkot, Karnataka, India.		2007	

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