



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, SRIRANGAPATNA TALUK, MANDYA-571438
DEPARTMENT OF MECHANICAL ENGINEERING



Details of Research Supervisors

Sl. No.	Name of the Research Supervisor	Name of the University from which Ph. D is awarded	Year of Award	Specialization	Department	No. of Candidates Registered for		Status of Completion		
						Ph.D.	M.Sc. (Engg.)	No. of Candidates completed Course Work	No. of Candidates completed Comprehensive Viva-Voce	No. of Candidates completed Submitted Final Thesis
1	Dr. Y T KRISHNEGOWDA	IIT, MADRAS	1996	THERMAAL ENGINEERING	MECHANICAL	05	-	05	03	-
2	Dr. MOHAMED KHAISAR	VTU, BELGAUM	2012	CONDITION MONITORING	MECHANICAL	02	-	-	-	-



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Details of Research Scholars

Sl. No.	Name of the Research Scholar	Dept.	Registered for			Status of Completion of		
			Year of Registration	Ph.D.	M.Sc. (Engg.) by Research	Course work [Y/N]	Comprehensive Viva-Voce [Y/No]	Submitted Final Thesis [Y/N]
1	Mr. MANJUNATH M	MECHANICAL	2010	Ph.D.	-	Y	Y	N
2	Mr. VIJAYARAGHU B	MECHANICAL	2012	Ph.D.	-	Y	N	N
3	Mr. JYOTHI PRAKASH	MECHANICAL	2012	Ph.D.	-	Y	Y	N
4	Mr. GODFREY DEVAPUTRA	MECHANICAL	2017	Ph.D.	-	N	N	N
5	Mr. SHREYAS C	MECHANICAL	2017	Ph.D.	-	N	N	N
6	Mr. YASHWANTH S V	MECHANICAL	2018	Ph.D.	-	N	N	N



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Publication Details

Sl. No.	Name of the Research Supervisor/ Research Scholar	Title of Paper	Publication Citation	National	International
1	Mr. JYOTHI PRAKASH	Analysis of Multifluid Compact Heat Exchanger Using Finite Element Method	Jyothiprakash K H, Y T Krishnegowda, V.Krishna, K.N.Seetharamu - Third International Conference on Computational Methods for Thermal Problems, THERMACOMP2014, June 2-4, 2014, Lake Bled, Slovenia.pg no 305-307		International
2	Mr. JYOTHI PRAKASH	Evaluation of Ambient heat leak on the Performance of a Cross-flow Heat Exchanger using Finite Element Method	<i>Jyothiprakash K H, Ameer Ali R Inamdar, Y T Krishnegowda, V.Krishna, K.N.Seetharamu - International Mechanical Engineering Congress -2014, June 13th -15th 2014, National Institute of Technology, Trichy.pg no 513-516</i>		International
3	Mr. GODFREY DEVAPUTRA	Prediction of Tool wear during turning of EN9 work material against coated carbide insert using vibration signal processing	International Journal on Research in Engineering and Technology (IJERT)		International
4	Mr. VIJAYARAGHU B	Effect of diverter on uniform of flow distribution in the channels of heat sink using CFD	International conference on Emerging trends in Mechanical Engineering		International
5	Mr. VIJAYARAGHU B	Effect of Inlet Port geometry on Uniformity of Flow Distribution in the channels of Heat Sink Using CFD	International Journal of Modern Engineering Research		International



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Details of Existing Research Facilities

Sl. No.	Facility available	Details of Funds Spent
1	Workshop: Bench vice, Welding Transformers, Surface plate	
2	CAD lab: Computer with ANSYS, SOLID EDGE, MASTER CAM Software	
3	METALLOGRAPHIC & METEIRAL TESTING LAB: 1. Universal Testing Machine (Model – TUN 600, 600KN capacity, 3 Phase, 440 Volts, 50 Hz AC) 2. Rockwell & Brinell Hardness Tester (Model – MRB 250, 250 KgF Capacity, 0.1 Kv, single phase AC, 220 V, 50Hz.) 3. Vickers Harness Tester (Model - BV 50, 250 KgF Capacity, 0.1 Kv, single phase AC, 220 V, 50Hz.) 4. Fatigue testing machine (Model – FTG 8, (D), 5-40Kg Load Capacity, 3 phase, 440 V, 50 Hz AC) 5. Impact test (Model – FIT 300 – EN, Max. Impact energy for charpy 300J, 140o. Impact energy for izod 170J, 90 ^o) 6. Nondestructive Test Digital Ultrasonic Flaw Detector, Model-Einstein II TFT Yoke Type Magnetic Particle Testing Machine Dye penetrate Kit Metallurgical Microscope (Binocular), 600 X Magnifications.	
4	Metrology & measurements: Calibration of Pressure cell (Capacity 10 Kg, Strain gauge type, 10 V, DC, 50 Hz, 500mA, 1HP, Compressor, 3Phase) Calibration of thermocouple (Capacity 500 Watt, 230 V, 50 Hz, Types of thermocouples- Type J- 600o, Type T- 400o, Type K – 1200 ^o) Calibration of LVDT (Capacity 500 Watt, 230 V, 50 Hz, Types of thermocouples- Type J- 600o, Type T- 400o, Type K – 1200 ^o) Calibration of Load Cell (10 Kg Capacity, 230 V, 50 Hz, Max excitation 12 V DC) Measurement of Strain gauge and Young's Modulus using Strain gauge (Capacity 1Kg, Gauge factor 2, Weight 100g, Beam Material- MS, Width 41mm, and Thickness 2.85mm)	



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	<p>Drill tool Dynamometer (Force- Thrust and Torque, Torque 20 Kg-m, Thrust- 200 KgF) Lathe tool dynamometer (Forces- 3 direction (X,Y,Z), Range- 100 KgF in 3 direction, 4 arm strain gauge, resolution 1Kg.)</p> <p>Profile Projector (Screen size dia 312mm, Range- > 300Dia,0-360o, resolution 1min, Net weight 110-130 Kg.)</p> <p>Angular measurement using Sine Bar: Max Length 200mm, Angular measurement using Sine center: Max Length 200mm, Autocollimator: Model- ACT – 01/5, focal length 300mm, single axis, Range-30mins, Accuracy 30 secs,220 V, AC, 50 Hz. Floating Carriage diameter measurement device: Model-Metric, resolution 0.0002mm, capacity 0-100mm, length 250mm. Surface roughness test: Model SJ-201, differential induction method, range 350 µm, Stylus material- diamond, force 4mN, 230 V, 500 mA, Micrometer: Range 0-25mm, LC-0.01 Gear tooth vernier caliper: Range 100mm, LC-0.02 Measurement using optical flats Gear tooth micrometer: Range 0-25mm, LC-0.01</p>	
5	<p>ENERGY CONVERSION LABORATORY:</p> <p>Single cylinder 4 stroke diesel engine with mechanical loading, exhaust gas calorimeter, 5HP, Kirloskar make Single cylinder 4stroke petrol engine with electric loading with exhaust gas calorimeter, 2.2 KW AC generator, Greaves make Single cylinder 2 stroke petrol engine with electric loading with exhaust gas calorimeter, 2.2 KW AC generator, Bajaj make Single cylinder variable compression ratio, 4stroke petrol engine with eddy current dynamometer loading 2.2 KW, with EGC, Greaves make 4 Cylinder 4 stroke multi stage petrol engine test rig with MPFI hydraulic dynamometer loading an Morse test, 50HP,ISUZU Make</p>	



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	<p>Redwood viscometer with thermometer, Petroleum Instruments India Pvt. Ltd. Kolkata make Saybolt viscometer with thermometer, Petroleum Instruments India Pvt. Ltd. Kolkata make Torsion viscometer with thermometer, Petroleum Instruments India Pvt. Ltd. Kolkata make Abel's flash point apparatus with thermometer, Petroleum Instruments India Pvt. Ltd. Kolkata make Pens key Martin flash & fire point apparatus with thermometer, Petroleum Instruments India Pvt. Ltd. Kolkata make Junker's gas calorimeter, digital output. Bomb calorimeter, digital output, Petroleum Instruments India Pvt. Ltd. Kolkata Make Planimeter (Mechanical) Valve an port timing Diagram 4S Diesel & 2S petrol engine</p>	
6	<p>Fluid Mechanics & Machinery: Venturimeter an orifice meter combined set up with flow nozzle attachment, 2HPmotor, and separate manometers. Major and minor losses combined set up, 2HP motor, separate manometers. Notch Calibration setup, 2HP motors Impact of jet on vanes, 2 HP motor Reciprocating pump Test Rig, 2HP motor Air compressor test rig with ELGI Make, 5HPmotor, Centrifugal blower test rig, Single stage, 5HP motor. Pelton wheel (mechanical loading), multistage centrifugal pump attachment, 5HP motor. Francis and Kaplan turbine unit (electrical loading), 10 HP motor Computerize attachment for Francis turbine</p>	
7	<p>HEAT & MASS TRANSFER LAB: Determination of thermal conductivity of a metal rod: Multi channel K-type temperature indicator, SS braded, 2amps, and combined conduction. Composite wall: AI-MS-Asbestos plate 10mm, 20mm, 25mm, Combined conduction Free Convection: Combined convection, SS-pipe, 50mm dia, Forced convection: Combined convection, MS pipe, 32mm dia. Emissivity of surface: Dia of plate 150mm, 7 thermocouples, combined radiation.</p>	



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	Stefan Boltzman Constant: Cu hemisphere with dia 8", 6 thermocouples. LMDT Parallel & Counter flow: Independent heat exchangers, 25mm outer dia, 2 Rota meter, thermostat control,	
8	DESIGN LABORATORY Balancing of rotating masses: 1/2 HP, 3x4x3ft, 230V, Single phase, 5 Amps Porter governor: 1/2 HP, 2.5x3x3ft, 230V, Single phase, 5 Amps Whirling of shaft: 1/2 HP, 3x4ftx3ft, 230V, Single phase, 5 Amps Strain rosette: 2 x 3x 3ft, 230V, Single phase, 5 Amps Gyroscope: 1/6 HP, 2x 3 x 3ft, 230V, Single phase, 5 Amps Circular Polari scope: 12x12ft, 230V, Single phase, 5 Amps Journal bearing: 1/6 HP, 2x 3 x 3ft, 230V, Single phase, 5 Amps	