



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

---

## DEPARTMENT OF MECHANICAL ENGINEERING

### Project Laboratory

The project laboratory offers facilities for students to gain valuable hands-on experience with the state of art environment where the students become proficient in both physical and creative skills needed in the field of mechanical engineering. It plays a prominent role in promoting practical learning experience, where the students develop creative proposals and execute their final projects. Self learning capabilities of students towards modelling, designing and fabrication are enhanced which foster creative, problem solving and critical thinking capabilities. Students are encouraged to do project work in domain wise with the support of facilities available in various laboratories. The salient features of the project laboratory are:

1. It provides space and resources needed by the students to access to the facility required for carrying project work.
2. Computing facility with sufficient number of personnel computers with high speed internet connectivity is available.
3. Faculty members and technical staff are available within and beyond working hours to support students for doing their project work.
4. Modeling and analysis software's made available for students.
5. Sophisticated equipment spread over different laboratories is made available for student project works.
6. Previous batch working models/projects were made available in the laboratories.
7. Digital and e-resources are made available to students.

### Project Laboratory (Fabrication Lab)

**Objective:** To provide basic facilities and resources required for fabrication of specimens and models.

**Equipment Available:** Pillar Drilling machine, Cutting machine, Bending machine, Arc welding machine, Grinding machine and Tools.

The students after carrying the basic fabrication work move to various laboratories for use of testing, computational and analysis. The equipment spread over various laboratories used for project work is given below.

Table-1 Name of the Laboratory, facilities and equipment available

S.No.	Laboratory Name	Equipment or Facilities Available
1.	Dassault 3D experience Centre	Provides computational facilities and modelling software's.
2.	ANSYS Skill Development Centre	Ansys 18.1 Software with 110 user licenses including 10 research licences with unlimited nodes.
3.	Heat Transfer Lab	Provides sophisticated equipment for evaluating Thermal conductivity of liquids, convective heat transfer apparatus and radiation equipments
4.	Thermal Engineering Lab	Well furnished & equipped lab with Two stroke and Four stroke VCR engines, gas analyzer, smoke meter.
5.	Advance Thermal Engineering Lab	Provides advanced equipments like VCR diesel test rig, parabolic solar concentrator, photovoltaic test rig etc.
6.	R&D Centre	Provides sophisticated equipment for evaluating mechanical and tribological properties of materials.  Equipment Available: 1.Electronic Tensometer 2. Wear and Friction Monitor, 3. Fatigue testing machine 4. Compression Testing Machine, 5.Metallurgical Microscope.
7.	Machine Tools Lab	Equipped with all gear lathe, tool dynamometer, milling machines ,grinding ,boring machines etc.
8.	Metrology	Facilities available for precision measurement and surface roughness measurement.  Equipment Available: 1. Micrometer, 2. Vernier Callipers, 3.Portable Surface Roughness Tester
9.	Workshop	All supporting tools for preliminary works like carpentry, tin smithy, house wiring etc..

The details of the project carried in various laboratories are provided in Table-2.

Table 2: Project titles and laboratory Used

**Academic Year:** 2019-20

<b>Project Title and Supervisor</b>	<b>Laboratory Used</b>
Microstructural And Mechanical Properties Of Aa7075 Reinforced With Blast Furnace Slag Supervisor: Dr.Seelam Pichi Reddy	Dassault 3D experience Centre R&D Centre, Machine Tools Lab, Workshop
Fatigue & Tribological Behaviour Of Ti67 And Ti64 Implant Alloys Supervisor: Dr.P.V.Chandra Sekar Rao	Dassault 3D experience Centre ANSYS Skill Development Center R&D Centre, Machine Tools Lab, Workshop
Modelling And Analysis Of Thermoelectric Refrigeration System Using Flat Plate And Concentrating Collector Supervisor: Dr.P.Ravindra Kumar	Heat Transfer Lab Thermal Engineering Lab Advance Thermal Engineering Lab R&D Centre, Workshop
Effect Of Eco Friendly Refrigerants And Nano Lubricants On Performance Of VCR System Supervisor: Dr.P.Vijay Kumar	Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab R&D Centre, Workshop
Stochastic approach to design automobile components Supervisor: Dr.Y.Appala Naidu	Dassault 3D experience Centre ANSYS Skill Development Centre R&D Centre
Vibrational Analysis of Tapered Sandwiched Tapered Beam With Different Types of Elastomers Supervisor: B.Sudheer Kumar	Dassault 3D experience Centre ANSYS Skill Development Centre R&D Centre, Workshop, MoM Lab
Effect Of Condensor Length On Performance Of Fabricated Water Cooling Refrigeration System Cum Air Cooler Supervisor: Ch.Siva Sankara Babu	Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab, R&D Centre, Workshop
Experimental Study Of Heat Transfer Through Perforated And Corrugated Plated Fins Supervisor: K.Lakshmi Prasad	Dassault 3D experience Centre ANSYS Skill Development Centre

	Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab R&D Centre, Workshop
Modal Analysis On Honey Comb Sandwich Cantilever Beam Supervisor: K.V.Viswanadh	Dassault 3D experience Centre ANSYS Skill Development Centre R&D Centre, Machine Tools Lab, Workshop
Design And Analysis Of Piston Made For Different Materials Using Ansys Workbench 18.0 Supervisor: V.Sankararao	Dassault 3D experience Centre ANSYS Skill Development Centre R&D Centre
Modelling And Optimization Of Fsw Process Parameters On Al 6082 T6 With RSM Technique Supervisor: R.Praveen Kumar	Machine Tools Lab MOM Lab Metrology, Workshop
Design And Analysis Of Leaf Spring Using Composites Supervisor: V.Sankararao	Dassault 3D experience Centre ANSYS Skill Development Centre R&D Centre Machine Tools Lab, Metrology, Workshop
Experimental Investigation Of Mechanical Properties Of Aluminium Powder Reinforced Glass Fiber Epoxy Composites Supervisor: B.Udaya Lakshmi	Dassault 3D experience Centre ANSYS Skill Development Centre R&D Centre, Machine Tools Lab, Workshop
Experimental Studies On Visual Distractions Leading To Accidents On Young Drivers Supervisor: B.Chaitanya	Dassault 3D experience Centre R&D Centre, Cognitive science lab, Workshop
Fabrication And Performance Characteristics Of Hybrid Aluminium Metal Matrix Composite Using Stir Casting Technique Supervisor: Dr.Murahari Kolli	ANSYS Skill Development Centre R&D Centre Machine Tools Lab, Metrology, Workshop
Performance And Emission Characteristics Of Azolla Biodiesel In Diesel Engine Supervisor: Dr.N.Sunil Naik	Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab, R&D Centre Workshop

<p>Investigation On Effect Of Multiple Injection Strategies For Performance And Emission Characteristics Using Palmoil As Fuel</p> <p>Supervisor: A.Naresh Kumar</p>	<p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advance Thermal Engineering Lab</p> <p>R&amp;D Centre, Workshop</p>
<p>Tensile And Flexural Properties Of Bi-Directional Flax/Glass Fiber Reinforced Hybrid Composites</p> <p>Supervisor: Dr.S.Pichi Reddy</p>	<p>ANSYS Skill Development Centre</p> <p>Heat Transfer Lab</p> <p>Thermal Engineering Lab</p> <p>Advance Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Fabrication And Performance Testing Of Shell And Tube Heat Exchanger Using Ethylene Glycol And Water Mixture</p> <p>Supervisor: Dr.P.Ravindra Kumar</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre</p> <p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advance Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Drag Reduction In Vehicles Using Coanda Effect</p> <p>Supervisor: J.Subba Reddy</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre</p> <p>R&amp;D Centre, Machine Tools Lab, Metrology, Workshop</p>
<p>Fabrication And Evaluation Of Mechanical Properties Of Rice Husk Ash And Boron Carbide Reinforced On Al 7075 Alloy Hybrid Composite</p> <p>Supervisor: Dr.Murahari Kolli</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>MOM Lab</p> <p>Metrology, Workshop</p>
<p>Design &amp; Fabrication Of Power Hump.</p> <p>Supervisor: A.Naresh Kumar</p>	<p>ANSYS Skill Development Centre</p> <p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab, R&amp;D Centre</p>
<p>Characterization Of Al-Zn-Mg-Nano Sic Metal Matrix</p> <p>Supervisor: K.Narayana</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>Metrology, Workshop</p>
<p>Prediction Of Hardness, Compressive Strength And Green Dencity Of Al-Al2o3–Fly Ash Composite Using Artificial Neural Networks</p> <p>Supervisor: Dr.S.Pichi Reddy</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>Metrology, Workshop</p>

Design& Fabrication Of Ergonomic Pedal Operated Husk Huller Supervisor: A.Nageswara Rao	Dassault 3D experience Centre ANSYS Skill Development Centre R&D Centre, Cognitive science Lab
Investigating The Adding Of Graphene Nano Particles To The Jatropha Biodiesel Blends To Improve Engine Performance And Reduce The Emission Characteristics Supervisor: D.Mallikarjuna Rao	Heat Transfer Lab Thermal Engineering Lab Advance Thermal Engineering Lab R&D Centre, Workshop
Design And Vibrational Analysis Of Sandwich Panels With Cellular Cores Supervisor: K.V.Viswanadh	Dassault 3D experience Centre ANSYS Skill Development Centre Thermal Engineering Lab Advanced Thermal Engineering Lab R&D Centre, Machine Tools Lab, Workshop
Design And Analysis Of An Electric Car Supervisor: A.Dhanunjay Kumar	Dassault 3D experience Centre ANSYS Skill Development Centre Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab, R&D Centre Machine Tools Lab, Workshop
Reliability Estimation Of A Rear Axle Housing Of An Automobile Supervisor: Dr.Y.Appala Naidu	Dassault 3D experience Centre ANSYS Skill Development Centre R&D Centre, Machine Tools Lab, Workshop
Performance Charecteristics Of Parabolic Trough Solar Collector By Using Titanium Dioxide Nano Particles Supervisor: Dr.K.Dileep Kumar	Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab, R&D Centre
Experimental Assessment Of Performance, Combustion, Emission Characteristics Of Diesel Engine Fuelled With Lemon Peel Oil Supervisor: Dr.V.Dhana Raju	Heat Transfer Lab Thermal Engineering Lab Advanced Thermal Engineering Lab, R&D Centre
Zone Warning System For Driver Supervisor: B.Sudheer Kumar	Dassault 3D experience Centre ANSYS Skill Development Centre R&D Centre Machine Tools Lab, Workshop
Influence Of Minimum Quantity Lubrication (Mql) On Material Removal Rate And Surface	R&D Centre

<p>Roughness Of Ph 17-4 Steel On Milling Machine.</p> <p>Supervisor: Dr.MurahariKolli</p>	<p>Machine Tools Lab</p> <p>MOM Lab</p> <p>Metrology, Workshop</p>
<p>Experimental Investigation &amp; Fabrication Of VCR System by Using Double Helical Coiled Water Cooled Heat Exchanger With Two Stepped Orifice</p> <p>Supervisor: Dr.K.Dileep Kumar</p>	<p>Heat Transfer Lab</p> <p>Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>A Pilot Study On The Effect Of Mobile Conversation On The Driving Errors Among Young Drivers</p> <p>Supervisor: B.Chaitanya</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre</p> <p>R&amp;D Centre, Cognitive science lab</p>
<p>Fabrication Of Plastic Shredder.</p> <p>Supervisor: S.Srinivasa Reddy</p>	<p>R&amp;D Centre, Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Localized Intelligent Vehicle - Electric (Liv-E)</p> <p>Supervisor: Dr.V.Dhana Raju</p>	<p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advance Thermal Engineering Lab, R&amp;D Centre</p>
<p>Drain Cleaning Robot.</p> <p>Supervisor: Dr.N.Sunil Naik</p>	<p>R&amp;D Centre, Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Effect Of Nanoparticles On Performance, Emission And Combustion Characteristics Of A Ci Engine Powered With Mango Seed Oil.</p> <p>Supervisor: S.Rami Reddy</p>	<p>Heat Transfer Lab</p> <p>Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, workshop</p>
<p>Fabrication Of Horizontal Drilling Machine.</p> <p>Supervisor: S.Srinivasa Reddy (Jr.)</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre</p> <p>R&amp;D Centre, Machine Tools Lab, Metrology, Workshop</p>
<p>Parameric Design And Development Of 3d Printed Helmet</p> <p>Supervisor: A.Nageswara Rao</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Experimental Analysis Of Heat Transfer On Different Geometric Plates Under Natural And Forced Convention</p> <p>Supervisor: K.Lakshmi Prasad</p>	<p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>

<p>Experimental Investigation Of Shell And Tube Heat Exchanger On Helical Coil By Using Alumina Nano Fluid. Supervisor: B.Kamala Priya</p>	<p>Dassault 3D experience Centre ANSYS Skill Development Centre, Heat Transfer Lab, Thermal Engineering Lab, Advanced Thermal Engineering Lab, R&amp;D Centre, Workshop</p>
<p>Effects Of Graphene Nanoparticles Addition To Jatropa Biodiesel Mixture On The Performance And Emission Characteristics Of A Diesel Engine. Supervisor: D.Mallikarjuna Rao</p>	<p>Heat Transfer Lab Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Characteristics Of Aluminium 6063&amp;Blast Furnace Slag Reinforcement Composition Supervisor: S.Srinivasa Reddy</p>	<p>R&amp;D Centre Machine Tools Lab MOM Lab, Metrology, Workshop</p>
<p>Thermal Management Of Electronics Using Pcm Based Heat Sink. Supervisor: Dr.P.Vijay Kumar</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Multi Objective Optimization Of Electro Discharge Machining Parameters For Al 7075 Using Taguchi Technique software. Supervisor: J.Subba Reddy</p>	<p>Dassault 3D experience Centre ANSYS Skill Development Centre R&amp;D Centre, Machine Tools Lab, MOM Lab, Workshop</p>
<p>Damage Identification Of Plate Like Structures Using Mode Shapes.. Supervisor: Ch.Siva Sankara Babu</p>	<p>Dassault 3D experience Centre ANSYS Skill Development Centre R&amp;D Centre, Machine Tools Lab, MOM Lab, Workshop</p>
<p>Experimental Investigation On Performance And Emission Characteristics Of A Diesel Engine Fuelled With Mango Seed Oil Using Additives. Supervisor: S.Rami Reddy</p>	<p>Heat Transfer Lab Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Workshop</p>

**Academic Year: 2018-19**

<p>Effect of variable compression ratio &amp; EGR on diesel engine using palmyra oil diesel blends Supervisor: Dr.P.Vijay Kumar</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Workshop</p>
---	---



<p>Modelling and Experimental analysis on solar assisted Thermo electric Refrigeration system</p> <p>Supervisor: Dr.P.Ravindra Kumar</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Study of Aluminium metal matrix composites reinforced with egg shell powder</p> <p>Supervisor: Dr.S.Pichi Reddy</p>	<p>R&amp;D Centre Machine Tools Lab Metrology, Workshop</p>
<p>Investigating the mechanical properties of Aluminium reinforced with Nano graphite particles</p> <p>Supervisor: Mr.S.Srinivasa Reddy</p>	<p>R&amp;D Centre Machine Tools Lab Metrology, Workshop</p>
<p>Fabrication and performance analysis of Wire mesh heat exchanger</p> <p>Supervisor: Mr.S.Rami Reddy</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Static analysis of composite leaf spring using ANSYS and MAT Lab</p> <p>Supervisor: Dr.Y.Appala Naidu</p>	<p>Dassault 3D experience Centre ANSYS Skill Development Centre R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Effect of advanced injection timing on performance, emission and combustion characteristics of Corn oil bio diesel blend combined with higher alcohol</p> <p>Supervisor: Mr.A.Naresh Kumar</p>	<p>Heat Transfer Lab Thermal Engineering Lab Advance Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Design and simulation of Friction stir welding and tool for AA 6082 T6 Alloy</p> <p>Supervisor: Dr.Murahari Kolli</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab MOM Lab, Metrology, Workshop</p>
<p>Thermal Analysis of Heat transfer in pin fins</p> <p>Supervisor: Mr.S.Rami Reddy</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Experimental study of Heat transfer through perforated and corrugated fins</p> <p>Supervisor: Mr.K.Lakshmi Prasad</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>

<p>Desing and analysis of connecting rod for different materials using ANSYS workbench 18.0</p> <p>Supervisor: Mr.V.Sankararao</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Machinability Characteristics if Al7075 SiC/B4C/Gr composite by abrasive water jet machine</p> <p>Supervisor: Dr.Murahari Kolli</p>	<p>R&amp;D Centre, Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Fabrication of dust collecting system</p> <p>Supervisor: Mr.S.Srinivasa Reddy</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>Metrology, MOM Lab, Workshop</p>
<p>Experimental and Numerical simulation of shell and tube exchanger using helical coil</p> <p>Supervisor: Mrs.B.Kamala Priya</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre</p> <p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Preparation and study of copper composite with SiC variation</p> <p>Supervisor: Mrs.B.Udaya lakshmi</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Fabrication and analysis of vertical axis wind turbine on Highways</p> <p>Supervisor: Mr.J.Venkata Somi Reddy</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Thermal analysis of compound fins using ANSYS</p> <p>Supervisor: Mr.P.Tharun Sai</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre</p> <p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Surface modification using Electro discharge machining on aluminium metal matrix composite for Automobile components</p> <p>Supervisor: Mr.K.N.D. Malleswara Rao</p>	<p>Heat Transfer Lab</p> <p>Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>

<p>Fabrication and experimental investigation on Dual Cycle Atmospheric Water Generator and Sea Water Purifier</p> <p>Supervisor: Dr.K.Appa Rao</p>	<p>Heat Transfer Lab Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Tribological and Fatigue Behaviour of Implant Titanium Alloy</p> <p>Dr.P.V.Chadra Sekar Rao</p>	<p>Dassault 3D experience Centre ANSYS Skill Development Centre R&amp;D Centre, Machine Tools Lab, MOM Lab, Metrology, Workshop</p>
<p>Damage analysis of beam like structures with fixed-free boundary condition</p> <p>Mr.B.Sudheer Kumar</p>	<p>Dassault 3D experience Centre ANSYS Skill Development Centre, R&amp;D Centre, Machine Tools Lab, MOM Lab, Workshop</p>
<p>Design and experimental investigation of Vapour Absorption Refrigeration System.</p> <p>Dr.K.Dilip Kumar</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Effect of Nano-Particles on the performance of VCR system using Eco-Friendly Refrigerants</p> <p>Supervisor: Mr.V.Dhana Raju</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Characterization of Mechanical Properties of Bamboo and Sisal Fiber Reinforced Polymer Composite</p> <p>Supervisor: Dr.S.Pichi Reddy</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advanced Thermal Engineering Lab, R&amp;D Centre, Machine Tools Lab, MOM Lab, Workshop</p>
<p>A Pilot Study on Effect of Different kinds of music on driving errors among young Drivers</p> <p>Supervisor: Mr.B.Chaitanya</p>	<p>R&amp;D Centre, Machine Tools Lab Cognitive science lab, Workshop</p>
<p>Optimization of Electro discharge machining Parameters on Titanium Alloy</p> <p>Supervisor: Mr.J.Subba Reddy</p>	<p>R&amp;D Centre Machine Tools Lab MOM Lab, Workshop</p>
<p>Synthesis, Characterization and Comparison of SiC Nano Particles using ball milling and Green Synthesis</p> <p>Supervisor: Mr.K.Narayana</p>	<p>R&amp;D Centre Machine Tools Lab Metrology, MOM Lab, Workshop</p>

<p>Evaluation of mechanical properties of shape memory Alloys using powder metallurgy</p> <p>Supervisor: Mr.K.V.Viswanadh</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab, MOM Lab</p> <p>Metrology, Workshop</p>
<p>Analysis on Dynamic Behaviour of Mechanical Structures by using Experimental modal Analysis</p> <p>Supervisor: Mr.Ch.Siva Sanakara Babu</p>	<p>ANSYS Skill Development Center</p> <p>R&amp;D Centre, Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Probabilistic Study of structural Analysis, modal Analysis and Fatigue Life of Connecting Rod</p> <p>Supervisor: Dr.Y.Appala Naidu</p>	<p>Dassault 3D experience Centre</p> <p>ANSYS Skill Development Centre, R&amp;D Centre</p> <p>Machine Tools Lab, Metrology, Workshop</p>
<p>Dynamic Analysis of a Beam Under Transit mass with varing Boundary Conditions</p> <p>Supervisor: Mr.T. Venkateswara Rao</p>	<p>ANSYS Skill Development Centre</p> <p>R&amp;D Centre, Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Experimental Investigation on Heat transfer Enhancement by using Al<sub>2</sub>O<sub>3</sub> Nanofluid in a Tube In Tube Heat Exchanger</p> <p>Supervisor: Mr.D.Mallikarjuna Rao</p>	<p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Machining Sustainability through Minimum Quantity Lubrication using Mahua Oil</p> <p>Supervisor: Mr.V.Venkatesu</p>	<p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>An Experimental Investigation of Tube In Tube Heat Exchanger using TiO<sub>2</sub>- Water Nano Fluid</p> <p>Supervisor: Mr.K.Somasekhar</p>	<p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Optimization of Process Parameters of EDM on Al Metal Matrix Composite Alloy</p> <p>Supervisor: Mr.R.Praveen Kumar</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>

**Academic Year: 2017-18**

<p>Fatigue And Wear Analysis On Al-7si Cast Alloys</p> <p>Supervisor: Dr.P.V.Chandra sekhar Rao</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Characterisation Of Mechanical Properties Of B4c Reinforced-Metal Composites Using Powder Metallurgy</p> <p>Supervisor: Dr.S.Pichi Reddy</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Heat Transfer Enhancement With Cuo Nanofluid In Tube Heat Exchanger</p> <p>Supervisor: Dr.P.Vijay Kumar</p>	<p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advance Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Experimental Analysis On Solar Assisted Thermoelectric Cooler Module</p> <p>Supervisor: Dr.P.Ravindra Kumar</p>	<p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab</p> <p>Metrology, Workshop</p>
<p>Study Of Mechanical Properties Of Al On Addition Of Zinc Oxide Nano Particles</p> <p>Supervisor: Dr.K.Dilip Kumar</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Fabrication and Performance Analysis on vapour compression refrigeration system with eco friendly refrigerant (R6000a)</p> <p>Supervisor: J.Subba Reddy</p>	<p>Heat Transfer Lab</p> <p>Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Analysis On Cognitive Distraction While Driving An Automobile (Conversion With Co-Passanger)</p> <p>Supervisor: B.Chaitanya</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>Cognitive science lab, Workshop</p>
<p>Exergy,Energy And Performance Characteristics over A Diesel Engine Filled With Algae Biodiesel</p> <p>Supervisor: V.Dhana Raju</p>	<p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advanced Thermal Engineering Lab</p> <p>R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Vibration Analysis On Engine Elastometric Angular Mount</p>	<p>R&amp;D Centre, Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>

Supervisor: B.Sudheer Kumar	
Fracture Analysis On Functionally Graded Materials And Leaf Spring Testing  Supervisor: K.V.Viswanadh	R&D Centre Machine Tools Lab MOM Lab, Metrology, Workshop
Optimization Of Diesel Engine Performance By Taguchi Grey Relational Analysis Using Various Bio Diesel Blends  Supervisor: A.Naresh Kumar	Heat Transfer Lab Thermal Engineering Lab Advanced Thermal Engineering Lab R&D Centre, Machine Tools Lab, Workshop
Damage Analysis Of Beam Like Structure With Varying Boundary Conditions  Supervisor: Ch.Siva Sankara Babu	R&D Centre Machine Tools Lab MOM Lab, Metrology, Workshop
Fabrication And Testing Of Aqua Silencer  Supervisor: S.Rami Reddy	Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab R&D Centre, Machine Tools Lab, Workshop
Tensile/FlexralProperties Of Bamboo/Carbon Fibre reinforced Hybrid Composites  Supervisor: T.Venkateswara Rao	R&D Centre Machine Tools Lab MOM Lab, Workshop
An Experimental Study On Influence Of Hand Free Cell Phone Conversation On Driving Errors Among Young Drivers  Supervisor: P.Sandeep Kumar	R&D Centre Machine Tools Lab Cognitive science lab Workshop
Experimental Investigation On Heat Transfer Characteristics Of A Rectangular Plate With Dimples  Supervisor: A.V.V.Ram Prasad	Heat Transfer Lab Thermal Engineering Lab Advance Thermal Engineering Lab R&D Centre, Machine Tools Lab, Workshop
Vibration Analysis Of Ci-Engine With N-Butanol Blends Of Variable Injection Prediction Using Artificial Neural Networks  Supervisor: G.Kartheek	Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab R&D Centre, Machine Tools Lab, Workshop

<p>Characterisation Of Al6063/B4c/Mos2 Metal Matrix Composites Fabricated Through liquid Metallurgy</p> <p>Supervisor: Dr.S.Pichi Reddy</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>Metrology, MOM Lab, Workshop</p>
<p>Failure Analysis Of Al-7si Cast Alloys</p> <p>Supervisor: Dr.P.V.Chandra sekhar Rao</p>	<p>ANSYS Skill Development Centre</p> <p>R&amp;D Centre, Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Analysis And Comparision Of Ultrasonic Testing And Radiography Testing On Weld Joint Analysis By Using Ansys</p> <p>Supervisor: Dr.P.Ravindra Kumar</p>	<p>ANSYS Skill Development Centre, R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Development Of A Prototype For Fire Fighting Hexacopter</p> <p>Supervisor: Dr.P.Vijay Kumar</p>	<p>R&amp;D Centre, Machine Tools Lab</p> <p>ANSYS Skill Development Centre</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Improving Thermal Comfort In The Riders Helmet</p> <p>Supervisor: Dr.K.Dilip Kumar</p>	<p>ANSYS Skill Development Centre</p> <p>Heat Transfer Lab, Thermal Engineering Lab</p> <p>Advance Thermal Engineering Lab, R&amp;D Centre, Machine Tools Lab, MOM Lab, Workshop</p>
<p>Experimental Investigation Of Al7075-Hybrid Composite Using EDM</p> <p>Supervisor: J.Subba Reddy</p>	<p>ANSYS Skill Development Centre</p> <p>R&amp;D Centre, Machine Tools Lab</p> <p>Metrology, MOM Lab, Workshop</p>
<p>Multiparametric Optimization Of Edm Using Rsm And Mcdm Technique Of Nickel Chromium Alloy</p> <p>Supervisor: Dr.K.Murahari</p>	<p>R&amp;D Centre</p> <p>Machine Tools Lab</p> <p>MOM Lab, Metrology, Workshop</p>
<p>Experimental Study On Edm Of Al6061/Al203 Surface Composite Via Friction Stir Processing</p> <p>Supervisor: Dr.M.Pulla Rao</p>	<p>ANSYS Skill Development Centre</p> <p>MOM Lab, R&amp;D Centre, Machine Tools Lab</p> <p>Metrology, Workshop</p>
<p>Fabrication Of Manually Operated Pipe Bending Machine</p> <p>Supervisor: S.Srinivasa Reddy</p>	<p>R&amp;D Centre, Machine Tools Lab,</p> <p>MOM Lab, Metrology, Workshop</p>

<p>Experimental Analysis On Closed Loop Pulsating HeatPipe At Different Filling ratio</p> <p>Supervisor: K.Lakshmi Prasad</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>An Experimental Study On Influence Of Visual Alert On Brake Response Time During Visual DistracionCondion</p> <p>Supervisor: B.Chaitanya</p>	<p>R&amp;D Centre Machine Tools Lab Cognitive science lab, Workshop</p>
<p>An Experimental Study On Influence Of Visual Distraction On Situational Awareness Of Drivers</p> <p>Supervisor: K.Narayana</p>	<p>R&amp;D Centre Cognitive science lab Machine Tools Lab Workshop</p>
<p>Kinematic Analysis And Fabrication Of Flapping Wing Mechanism</p> <p>Supervisor: V.Venkatesu</p>	<p>R&amp;D Centre, Machine Tools Lab, MOM Lab, Metrology, Workshop</p>
<p>An Experimental Study On Influence Of Audio Alert On Brake ResponseTime In Complex Driving Condition</p> <p>Supervisor: A.Nageswara Rao</p>	<p>R&amp;D Centre, Cognitive science lab Machine Tools Lab, Workshop</p>
<p>Design And Fabrication Of Self Charging Parallel Hybrid Vehicle With Variable Platform</p> <p>Supervisor: K.Soma Sekhar</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Fabrication Of A PrototypeFor Cargo Delivery hexacopter</p> <p>Supervisor: V.Sankararao</p>	<p>Dassault 3D experience Centre ANSYS Skill Development Centre R&amp;D Centre, Machine Tools Lab, Workshop</p>
<p>Performance And Emission Characterstics Of Diesel Engine Fueled With Various Blends Of Canola Oil</p> <p>Supervisor: B.Udaya Lakshmi</p>	<p>Heat Transfer Lab, Thermal Engineering Lab Advance Thermal Engineering Lab R&amp;D Centre, Machine Tools Lab, Workshop</p>