



# 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

### DEPARTMENT R & D CENTRE

#### Objectives of R & D Centre:

1. To provide necessary information and guidance to the faculty members for applying Research Projects sponsored by external agencies such as UGC, AICTE, DST, etc.
2. To motivate the faculty members to apply for externally Sponsored Research Projects.
3. To review the progress of ongoing research projects.
4. To take necessary steps so that Annual Progress Reports, Project Completion Reports, Utilization Certificates are submitted regularly to the concerned authority within the stipulated time.
5. To motivate the faculty members to publish the research papers in reputed Peer Reviewed Journals of at least 10 years standing.
6. To maintain a record of faculty publications.

#### Research Activities:

- The Department R&D activity aim at the innovation and technological development through academic and research collaboration with management of the college, Government and industries to meet the immediate as well as futuristic needs of the Society and Industry.
- The following faculty was appointed by the Universities to act as research guides.

Table 1.0 Research Guides in the Department

S. No.	Name of the Research Guide	Designation	University
1	Dr.K.Appa Rao	Professor & Principal	JNTUK, Kakinada
2	Dr.S.Pichi Reddy	Professor & HOD	
3	Dr.P.V.Chandra Sekhar Rao	Professor & CoE	
4	Dr.P.Vijay Kumar	Professor	
5	Dr.P.Ravindra Kumar	Professor	
6	Dr.K.Dilip Kumar	Professor	
7	Dr.K.Murahari	Assoc. Professor	JNTUK, Kakinada & KLEF, Vaddeswaram
8	Dr.V.Dhana Raju	Assoc. Professor	

Table 2.0 Funds Received by the Department

S. No.	Name of the Investigator	Title of the Project	Funding Agency	Amount Received
1	Dr.K.Murahari	FDP on “Frontier of 3D Printing Technology & its Industrial Applications	AICTE & AQIS scheme	4,77,833/-
2	Dr.P.Vijay Kumar	Prerana Scheme	AICTE	4,80,000/-
3	Dr.K.Appa Rao	Experimental Investigation on Homogeneous Charge Compression Ignition Engine	UGC	1, 55,000
4	Dr.K.Appa Rao	Modernization of Thermal Engineering Lab	AICTE	12,50,000/-
5	Mr.B.Chaitanya	Experimental studies on influence of cognitive and visual distractions in motor vehicle drivers leading to accidents	DST Cognitive Science	21,69,000
6	Dr.P.V.Chandra Sekhar Rao	Investigation on fatigue Behavior of Materials subjected to reversed bending	UGC	4,80,000
7	Dr.S.Pichi Reddy	Characterization of Aluminum-Fly-Ash Composites with various metallic and non-metallic additions	UGC	4,55,000
8	Mr.B.Chaitanya	Design of an effective visual prostheses using electro encephalographic patterns for estimating stimulation parameters	DST	53,20,000
9	Dr.P.Lova Raju	Modernization of CAD/CAM Lab	AICTE	5,50,000/-
10	Dr.B.Ramana	Modernization of Metallurgy Lab	AICTE	13,50,000/-
<b>Total</b>				<b>1,26,86,833/-</b>

The equipment available in the R&D Center is presented in Table 3.0

Table 3.0 Equipment in R&D center.

S.No	Equipment	Remarks
1	Electronic Tensometer	Used for determining the strength of materials.
2	Wear and Friction Monitor	Capable of determining the wear characteristics of the materials.
3	Fatigue Testing Machine	To determine the fatigue strength of materials.
4	Compression Testing Machine	To determine the compressive strength of materials.
5	Metallurgical Microscope	To determine the microstructure of materials.

The Photos of the equipment available in the R & D center is presented below.



View of R & D Center



Electronic Tensometer



Wear and Friction Monitor



Fatigue Testing Machine



Metallurgical Microscope