LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(Autonomous)
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DEPARTMENT OF MECHANICAL ENGINEERING

Colloquium meeting : 02	**Venue of meeting** : Offline
Date : 07.10.2026	**Time** : 12.05 PM
Name of the speaker : Mr.K.V.ViswanadhRao, Mr.K.Venkateswara Reddy	**Research Group** : Materials and Manufacturing
Topic selected from : Technical Talk	**Title of the topic**: **CONCEPT TO CREATION: HOW TO USE THE IDEA LAB FOR YOUR RESEARCH**

Introduction

An Idea Lab is a creative and collaborative space that helps researchers transform their ideas into practical solutions. It encourages innovation, critical thinking, experimentation, and problem-solving. By using modern tools, technology, and teamwork, researchers can develop new concepts, test their ideas, and create useful outcomes.

How to Use the Idea Lab for Research

The Idea Lab can be used at different stages of the research process:

1. Identifying the Problem: Begin by selecting a research topic and identifying a specific problem or gap that needs to be addressed.
2. Generating Ideas: Use brainstorming, mind mapping, discussions, and creative thinking techniques to develop possible solutions and research questions.
3. Planning and Designing: Organize the best ideas into a research plan. Define the objectives, identify the required resources, and select suitable methods and tools.
4. Experimenting and Prototyping: Use available equipment, digital tools, software, and other resources to create models, prototypes, or demonstrations of the proposed solution.
5. Testing and Improving: Evaluate the results, collect feedback, identify limitations, and make necessary improvements. Repeat the process until a practical and effective solution is developed.
6. Presenting the Results: Document the process, analyze the findings, and present the final outcome through reports, presentations, demonstrations, or research publications.

Benefits of the Idea Lab

The Idea Lab promotes creativity, collaboration, interdisciplinary learning, and practical research skills. It allows researchers to explore innovative approaches, test assumptions, learn from failures, and develop solutions to real-world problems. It also helps bridge the gap between theoretical knowledge and practical application.

Bambu Lab H2D- AMS Combo 3D Printer

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- Perfect for engineers, industrial designers, advanced makers, and low-volume production environments.
- Supported Materials PLA, PETG, ABS, ASA,TPU.
- Functional Mechanics with Dual Materials
- Used to Heavy-Duty Robotics & Drones
- Oversized Aerodynamic & Structural Parts
- Electrical & Embedded Systems Engineering Hybrid Custom Enclosures
- Prosthetic and Orthotic Fit Testing







Signature of the
(Faculty member)

Signature of
(Colloquium Coordinator)

Signature of
(HOD – ME)