

**A Report on Guest Lecture**  
**"Design Thinking, Research and Innovation"**  
**Organised by Department of Electronics and Communication Engineering**  
**in association with**  
**Institute Innovation Council (IIC)**  
**03.10.2024**



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
(UGC-AUTONOMOUS INSTITUTION)  
Madanapalle - 517325, Annamayya Dist., Andhra Pradesh, India

**Online Guest Lecture** on **“Design Thinking, Research and Innovation”**

Organized by  
**Department of Electronics and Communication Engineering (ECE)**  
in association with  
**INSTITUTION'S INNOVATION COUNCIL**

Date : 03/10/2024      Time : 10:00 AM      Venue : Scale up room

**Resource Person**  
**Dr. D. P. Kothari**  
Ex Director, IIT Delhi, Ex Vice Chancellor VIT Vellore  
Adjunct Professor, VNIT, Nagpur

<b>Chief Patron</b> Dr. N. Vijaya Bhaskar Choudary Secretary & Correspondent	<b>Patron</b> Mrs. Keerthi Nadella Executive Director	<b>Program Chair</b> Dr. C. Yuvraj Principal	<b>Co - Chair</b> Dr. S. Rajasekaran HOD/ Dept. of ECE	<b>Covener</b> Dr. Vivek Jain Assistant Professor/ECE	<b>Coordinator</b> Mr. G. Charan Kumar Assistant Professor/ECE
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**Event Organizer:** Dr. Vivek Jain, Assistant Professor, Department of ECE; Mr. G. Charan Kumar, Assistant Professor, Department of ECE

**Resource Person:** Dr. D. P. Kothari, Adjunct Professor, VNIT, Nagpur

**Venue:** Scale Up Classroom

**Time:** 10:00 AM to 12:00 PM

**Attendees:** 67 members Including Faculty.

**Report Received on** 14.10.2024

**Introduction:**

On October 3, 2024, the Department of Electronics and Communication Engineering (ECE) in collaboration with the Institute Innovation Council (IIC) hosted a guest lecture titled "Design Thinking, Research and Innovation." The lecture was delivered by the esteemed Dr. D. P. Kothari, Adjunct Professor at Visvesvaraya National Institute of Technology (VNIT), Nagpur. Dr. Kothari, a renowned expert in engineering education and innovation, enlightened the audience with his deep insights into design thinking and its role in fostering research and innovation.



The lecture, held in the Scale Up Classroom at 10:00 AM, saw the presence of notable figures such as Dr. P. Ramanathan, Vice Principal Academics, and Dr. S. Rajasekaran, HOD of the ECE Department. The event was coordinated by Dr. Vivek Jain, Assistant Professor, Department of ECE, with support from Mr. G. Charan Kumar, Assistant Professor, Department of ECE.

Dr. Kothari began by introducing the core principles of design thinking, emphasizing the importance of an iterative, user-centered approach in solving complex problems. He discussed how design thinking goes beyond traditional methods by focusing on the end-user experience, promoting creativity, and encouraging collaborative brainstorming.

Throughout the lecture, Dr. Kothari presented several case studies to demonstrate how design thinking has been applied in various engineering fields to drive innovation. He explained how research in design thinking leads to transformative solutions in both industry and academia. Dr. Kothari also highlighted the role of interdisciplinary collaboration, urging students and researchers to embrace a mindset of continuous learning and experimentation.

**Understanding Design Thinking:** Dr. Kothari elaborated on the five stages of design thinking—empathize, define, ideate, prototype, and test—offering examples from real-world applications.

**Innovation in Research:** The lecture shed light on how design thinking can revolutionize the way researchers approach problem-solving, encouraging innovative solutions to engineering challenges.

**Collaboration and Interdisciplinarity:** The importance of collaborative efforts across different domains of knowledge was stressed, with Dr. Kothari urging participants to explore cross-disciplinary research and partnerships.

**Practical Implementation:** Dr. Kothari outlined strategies for integrating design thinking into academic research, encouraging students to apply these principles in their project work and future careers.

### **Program Outcomes:**

The guest lecture proved to be an enriching experience for the students and faculty members alike. The following outcomes were achieved:

**Enhanced Knowledge:** Students gained a deeper understanding of design thinking and its application to research and innovation. They were inspired to adopt this approach in their academic and professional pursuits.

**Innovation-Oriented Mindset:** The event nurtured an innovation-centric mindset among participants, equipping them with practical tools and methodologies to approach challenges in a creative and structured way.

**Interdisciplinary Approach:** The lecture fostered an appreciation for the value of interdisciplinary research and collaboration, motivating attendees to consider cross-disciplinary opportunities.

### **Conclusion:**

The guest lecture on "Design Thinking Research and Innovation" was a highly successful and insightful event, leaving a lasting impact on the participants. Dr. Kothari's expertise and engaging delivery sparked a renewed interest in the principles of design thinking and underscored its importance in driving research and innovation. The Department of ECE, under the leadership of Dr. S. Rajasekaran, and the IIC, continues to play a pivotal role in promoting such knowledge-sharing initiatives, fostering a culture of innovation and collaboration within the institution.



**Vote of Thanks:**

On behalf of Department of ECE, MITS, I would like to extend our heartfelt gratitude to our esteemed speaker, D. P. Kothari, for taking the time to share your deep expertise with us. Your thought-provoking lecture on the principles of design thinking, its application in research, and the role of innovation in shaping the future has provided us with valuable perspectives that will undoubtedly fuel our curiosity and creativity, Enhanced understanding of design thinking methodologies, Exposure to current research trends and innovations in the field Development of critical thinking and problem-solving skills, Inspiration for pursuing innovative approaches in engineering.

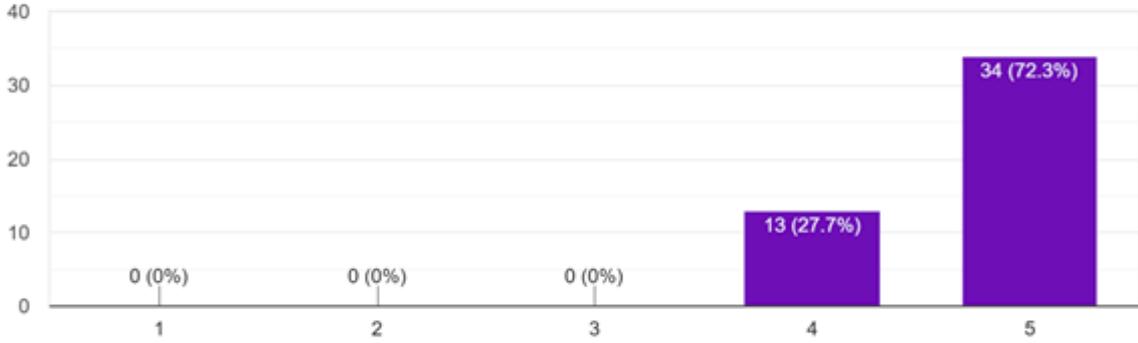
A special note of thanks to our Management, Principal, Vice Principal and Head of Department for making today's event possible and for fostering a culture of learning and exploration. I would also like to acknowledge the organizing team for their hard work in ensuring the success of today's lecture.



**Feedback Analysis:**

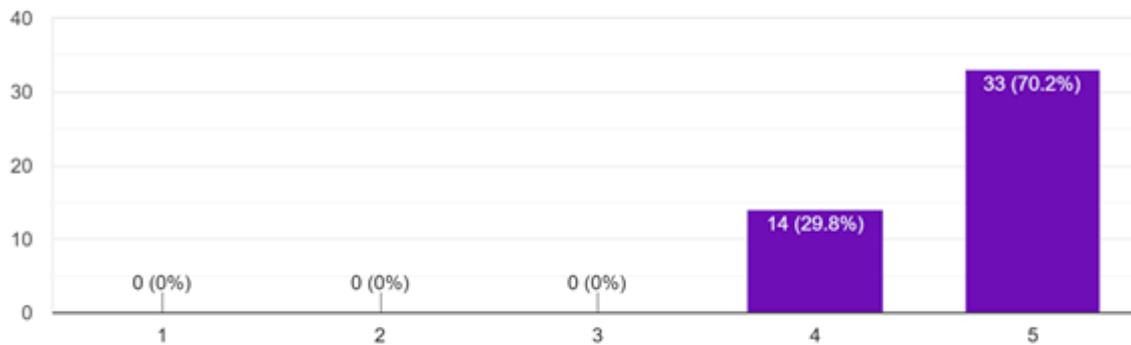
1. The interactive session was scheduled at a suitable time

47 responses



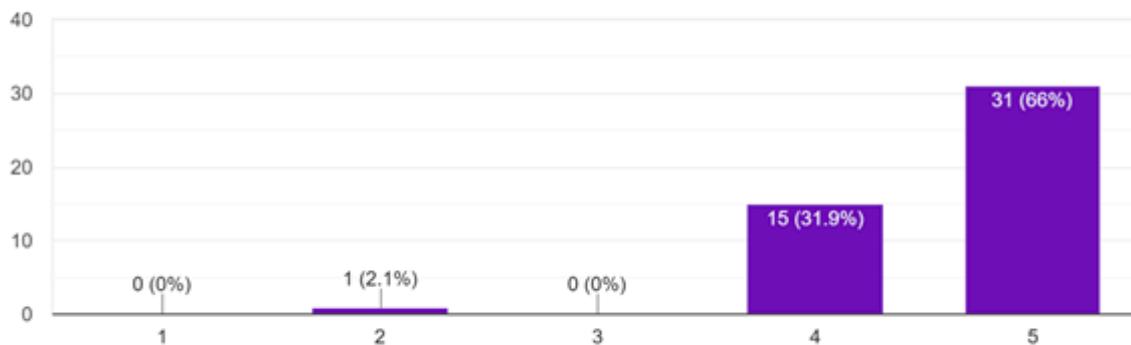
2. The interaction was useful and resource person explanation.

47 responses



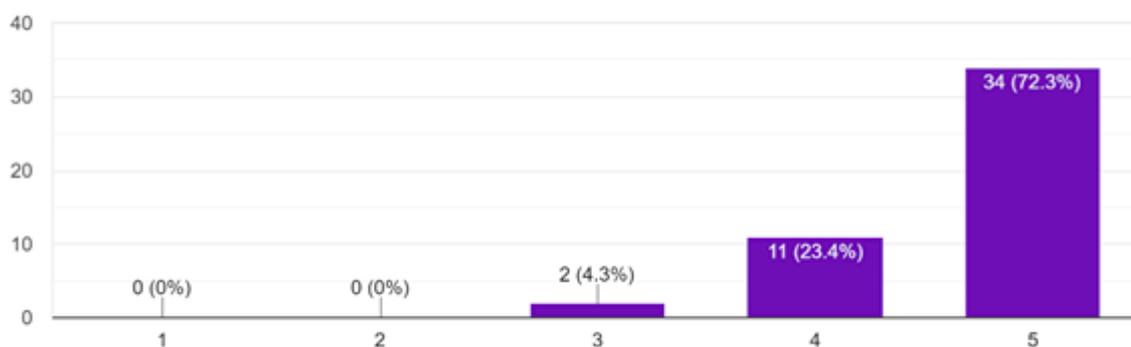
3. The information in the interaction was presented in a clear and organized manner.

47 responses



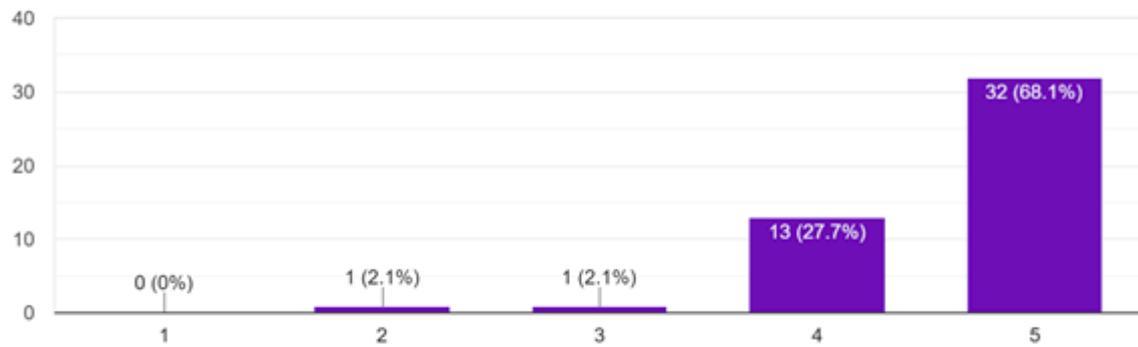
4. The presenter responded to questions an informative, appropriate and satisfactory manner.

47 responses



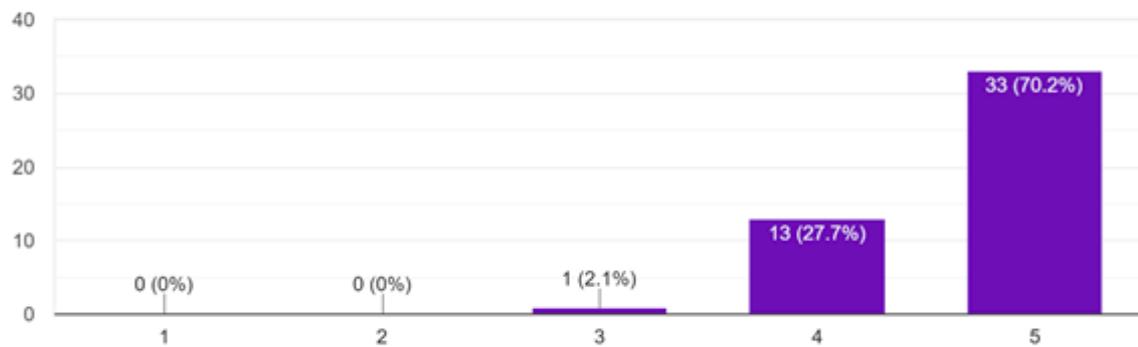
5. your impression of facilities provided by the institute for interaction.

47 responses



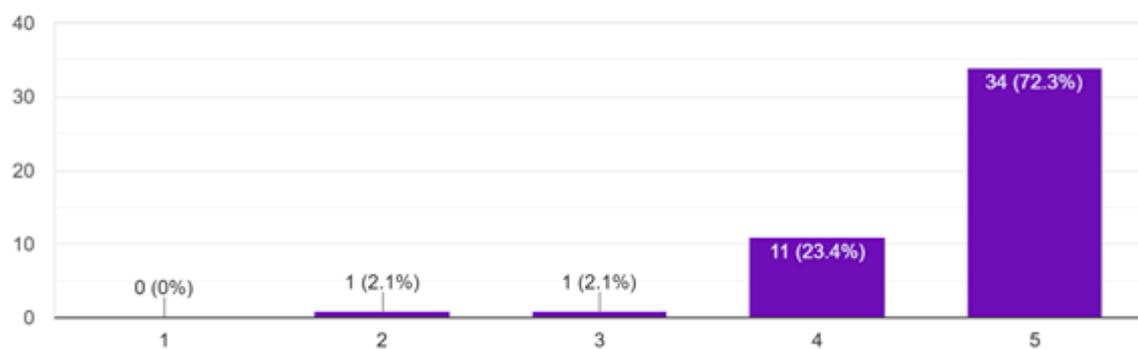
6. Overall, the session was informative and valuable.

47 responses



7. In what ways could this interaction have been improved to better suit your needs?

47 responses



## 8. Any Other Comments

24 responses

