



# KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

(An Autonomous Institute under Kakatiya University, Warangal)  
Opp : Yerragattugutta, Bheemaram (V), Hasanparthy (Mandal), WARANGAL - 506 015, Telangana State, INDIA.

काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना राज्य, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - 506 015. తెలంగాణ రాష్ట్రం, భారతదేశము

## DEPARTMENT OF MECHANICAL ENGINEERING



### MECHANICAL ENGINEERING STUDENTS' ASSOCIATION (MESA)

No. KITS/MED/2022-23

Date: 03.04.2023

#### CIRCULAR

**Sub: Session on "Design Thinking : An approach used for practical and creative problem-solving"**

Design Thinking is an iterative problem-solving approach that focuses on empathizing with the user, defining the problem, ideating possible solutions, prototyping, and testing to come up with innovative solutions to complex problems.

General approach in Design Thinking:

1. Empathize: The first step is to understand the user's needs, motivations, and pain points, can conduct interviews, observe user behavior, or empathize with the user.
2. Define: Once the user's needs are understood, can define the problem they are trying to solve. It's important to define the problem in a way that is both specific and actionable.
3. Ideate: In this stage, brainstorm as many ideas as possible to solve the problem. focus on generating a wide range of ideas, without judging or discarding them prematurely.
4. Prototype: create a prototype of best ideas to test and refine them. The prototype can be a physical product, a digital mockup, or even a simple sketch.
5. Test: In the final stage, test prototypes with users to gather feedback and identify areas for improvement. This feedback can then be used to refine the prototype and iterate on the design.


By following these steps, students can learn to approach problem-solving in a systematic and creative way. They also learn to prioritize user needs and collaborate effectively in a team.

All the B. Tech- Mechanical Engineering IV, VI and VIII Semester students are invited to attend the Session on "Design Thinking : An approach used for practical and creative problem-solving" organized by Mechanical Engineering Students Association (MESA) on Tuesday i.e. 04/04/2023 from 11:40 am in Mechanical seminar hall (BIII-210).

**Note:** Student participation/presence shall be considered as attendance and posted in CMS

#### Faculty Coordinators (MESA)

1. Sri K. Kishor Kumar
2. Sri V. Rajesh
3. Dr. B. Srinivasa Reddy

  
Dr. K. Raja Narender Reddy  
Professor of ME & HoD.

**Copy to:** 1. Notice board

2. Circulation among the students of

4M1-

6M1-

8M1-

4M2-

6M2-

8M2-

8M3-