



# **Model Institute of Engineering & Technology (Autonomous)**

## **Vision Document Research, Development & Innovation**

2021-26

## TABLE OF CONTENTS

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1. VISION | PAGE 2
2. BROAD FOCUS AREAS | PAGE 2
3. OBJECTIVES | PAGE 2
4. ACTION ITEMS | PAGE 3

## VISION

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To establish Model Institute of Engineering and Technology as a credible center for research in engineering, management and allied domains as evidenced by high-quality publications, innovative projects and generation of intellectual property.

## BROAD FOCUS AREAS

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- a. Internet-of-Things
- b. Artificial Intelligence and Deep Learning
- c. Cloud Computing and Big Data
- d. Blockchain
- e. 3-D Printing and Rapid Prototyping
- f. Pervasive Computing
- g. Smart Cities
- h. Automation and Robotics
- i. Integrated Circuits and VLSI
- j. Mobile Computing and 5G-based Communication
- k. Low-cost and Reliable Structures
- l. Environment and Sustainability
- m. Geographical Information Systems
- n. E-Governance
- o. Disaster Management
- p. Public Safety
- q. Autonomous Vehicles
- r. Mechatronics
- s. Strategic Management
- t. Digital Marketing
- u. Technical Education

## OBJECTIVES


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- a. Promote a culture of research and development among faculty and students
- b. Offer research-based M.Tech and PhD programs in different disciplines to create a pool of higher degree holders in the region
- c. Explore inter-disciplinary research to solve real-world problems especially in the local context
- d. Organize conferences, workshops and research forums to provide platform for the dissemination of research in the region
- e. Champion innovation, support creation of intellectual property and evangelize startups in the region

## ACTION ITEMS

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- a. Setup a Research Advisory Board comprising eminent researchers in different disciplines.
- b. Create a Central Research Center at MIET to help drive research-related activities across departments leading to interdisciplinary research.
- c. Setup inter-institutional research groups to take forward the agenda for research.
- d. Strategic hiring of faculty, industry specialists with proven research, development and innovation credentials.
- e. Setup a monitoring and tracking mechanism to ensure progress on the stated objectives.
- f. Undertake periodic review of the program to initiate required interventions and incorporate emerging research areas in the action plan.

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