

ABOUT THE INSTITUTE

A comprehensive education encompasses the cultivation of moral, aesthetic, athletic, and intellectual values in the future citizens of our society. KIPM stands out as the optimal institution for fostering such a holistic education. Affiliated with AKTU and approved by the All India Council for Technical Education (AICTE), this college offers an enriching environment surrounded by lush greenery, conducive to the growth of students not only as adept engineers/managers but also as globally responsible citizens.

The faculty at KIPM comprises a harmonious blend of seasoned and dynamic educators dedicated to the noble pursuit of education. Our goal at KIPM is to shape a workforce that embodies the same spirit of commitment. Emphasizing both practical training and placements, along with a focus on self-directed learning and discipline, we attract students from across India. The institute boasts a sprawling, verdant campus with five academic blocks catering to various programs, all equipped with state-of-the-art facilities. The aesthetically pleasing infrastructure features open spaces that contribute to a pleasant and peaceful atmosphere, fostering a serene environment ideal for learning. This college, enveloped by its verdant surroundings, provides the perfect backdrop for the holistic development of individuals.

ABOUT THE DEPARTMENT

B.Tech Mechanical Engineering is an eight semester Bachelor's degrees programme after intermediate or equivalent. Mechanical Engineering is one of the oldest and broadest engineering disciplines that apply the principals of mathematics, physics and chemistry for analysis, design, manufacturing, and maintenance of mechanical systems. It is the branch of engineering that involves the production and usage of heat and mechanical power for the design, production, and operation of machines and tools.

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Lucknow

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AICTE TRAINING AND LEARNING (ATAL) ACADEMY

FACULTY DEVELOPMENT PROGRAM

on



TOWARDS SUSTAINABILITY: THE ROLE OF ADVANCED MATERIALS IN NEXT-GEN ENGINEERING

SUB THRUST AREA: ADVANCED FUNCTIONAL MATERIALS

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FOR REGISTRATION

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DEPARTMENT OF MECHANICAL ENGINEERING

ABOUT THE FDP

The Faculty Development Program on "Towards Sustainability: The Role of Advanced Materials in Next-Gen Engineering" focuses on the significance of advanced materials in promoting sustainable engineering solutions. It explores innovations in nanomaterials, composites, biomaterials, and smart materials that contribute to energy efficiency and environmental protection. The program includes expert lectures and interactive sessions, emphasizing green technologies, life cycle assessment, and circular economy concepts. Designed to enhance the teaching and research capabilities of faculty, the FDP aims to prepare educators to guide future engineers in developing sustainable and innovative solutions for real-world challenges across various engineering sectors.

ATAL ACADEMY

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understand that there is a need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies.



FDP SESSION DETAILS

- SESSION-1** Environmental Impact and Life Cycle Assessment of Clean Energy Materials
- SESSION-2** Recent Development in Cladding Techniques
- SESSION-3** Recent Advancements in Automotive Sector
- SESSION-4** Advancements in heating system for use in Hazardous areas
- SESSION-5** Supercritical Carbon Dioxide for Solar Thermal Collector
- SESSION-6** Bamboo as a Sustainable Alternative to Steel and Concrete
- SESSION-7** Advancements in Nuclear Technology for Sustainable Energy and National Development
- SESSION-8** Sustainable Cement Manufacturing: Innovations in Water & Mineral Waste Reutilization
- SESSION-9** Bioethanol from Indigenous Resources: A Sustainable Alternative Fuel for IC Engines
- SESSION-10** Emerging Trends in Automotive Electrical Systems: Innovations & Challenges
- SESSION-11** Insulator-to-Metal Transition in VO₂ Nanoparticles: Mechanisms of Charge Domain Evolution
- SESSION-12** Advances in Perovskites and Sustainable Photovoltaics
- SESSION-13** Advanced Electrical Systems for Oil & Gas: From Hazard Classification to Trace Heating Execution

