

About MBM Engineering College

M.B.M Engineering College is the first college in Rajasthan established post-independence on 15 August 1951, by the Government of Rajasthan. MBM offers more than 25 courses of study in engineering leading to the degrees of Bachelor of Engineering, Master of Engineering, Doctor of Philosophy (Ph.D.), and Post Graduate Diploma.

Mechanical Engineering department is currently running B.E., M.E. (Thermal, Design, Production and Industrial) and Ph.D. programs.

The college and department are committed to provide their students and teachers a quality education environment that combines rigorous academic study and developing a far more ambitious, integrated and influential environment that will best serve the nation.

Prologue

- Composite plates and panels made of Uni-directional composite laminates are increasingly used in thin-walled structural components in aerospace, marine, automobile civil, and offshore structures.

These composites have many advantages over traditional metals because of their high stiffness to weight ratio, high strength, resistance of corrosion and damping properties.

- In this 5-day Faculty Development Program, the participant should be able to understand and apply state of the art knowledge of different composite materials in Structural Engineering applications i.e. buildings, bridges, defense industry, aerospace industry, automobile industry, etc.

Objective of FDP

This FDP is designed to meet the following objectives:

- To prepare faculty to be able to guide/train students for project and Lab based mechanics of composite materials.
- To provide a bridge between the industry and academic institution to update their knowledge.
- To provide a platform for Faculty, Research Scholar, Engineers and Students to interact on various aspect of construction, mechanics and characterization of composite materials.
- To enhance faculty skills for academic growth and also make them to conductive

research activity in the field of continuum mechanics.

Course Contents

FDP will cover:

- Composite Materials
- Smart structures and functional graded materials
- Applications in Structural Engineering
- The behavior of different structural elements such as beam, plates, shells, etc.
- Isotropic, Anisotropic, orthotropic materials
- Prestressed Concrete
- Solid Mechanics- Generalized Hook's law, Energy principles, vibrational principles
- Thermal stresses

Course Outcomes

- This FDP is designed especially for the faculty members to acquire their skills in the composite materials and structures in this emerging area.
- FDP includes theory and numerical practical problems.
- Facilitate insight to different research models and their application in teaching.

- To make the participants realize the importance of composite structures and its applications in various fields as well as to demonstrate some demo projects on specific applications.
- Certificate of participation will be given.



**AICTE –Training and
Learning (ATAL) Academy Sponsored
5 Days Training Programme (FDP)**

on

**“Mechanics of Composite Materials and
Structures”**

09th–13th September, 2020

Registration

**Please register for this course on AICTE-
ATAL Portal**

<https://atalacademy.aicte-india.org/signup>

- There is no registration fee.**

Key Speakers of the FDP



Prof. Tarun Kant
Department of Civil Engineering
IIT Bombay



Prof. S.P. Harsha
Department of Mechanical and Industrial Engineering
IIT Roorkee.



Prof. S. Pradyumna
Department of Applied Mechanics
IIT Delhi



Dr. Poonam Kumari
Department of Mechanical Engineering
IIT Guwahati



Dr. Chandra Sekher Yerramalli
Department of Aerospace Engineering
IIT Bombay



Dr. Harlal Singh Mali
Department of Mechanical Engineering
MNIT Jaipur



Dr. Atul Kumar Sharma
Department of Mechanical Engineering
IIT Jodhpur



Dr. Prabhat K. Agnihotri
Department of Mechanical Engineering
IIT Ropar



Dr. Rajneesh Sharma
School of Engineering
IIT Mandi



Dr. Harpreet Singh
Department of Mechanical Engineering
IIT Goa

Dates to Remember

Course duration: 09th–13th September, 2020

Eligibility Criteria

- The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from government organizations and industry.
- On first come first served basis. However, department reserves right to increase seats.

Contact for Registration

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MBM Engineering College,
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Committees

Chief Patron



Prof. S.K. Ojha,
Dean Faculty of Engineering
and Architecture, JNVU,
Jodhpur

Patron



Prof. Dinesh Shringi,
HOD
Department of Mechanical
Engineering

Coordinator

Dr. Emarti Kumari, Assistant Professor (Mech.)

Co-Coordiators

Dr. Kailash Chaudhary, Assistant Professor (Mech.)
Mr. Abhisek Gaur, Assistant Professor (CSE)
Mr. Amit Meena, Assistant Professor (Mech.)

Program Advisors

Prof. Rajat Bhagwat, Professor
Prof. S. K. Singh, Professor
Prof. P M Meena, Professor