

List of PBI topic for ME Discipline

Sno	Faculty Name	Email ID	Topic Offered
1	Dr. Shivdayal Patel	shivdayal@iiitdmj.ac.in	Reliability analysis of composite plate under impact
			Progressive damage modeling of Hybrid composite due to high velocity impact
			Stochastic Finite element analysis of ship structures underwater blast
			Crash-worthiness analysis of vehicle armors
2	Dr. Sujoy Mukherjee	sujoy@iiitdmj.ac.in	Vibration analysis of Plates (Homogeneous or Non-homogeneous) of Different Shapes
			Design and Analysis of Tuned Mass Dampers (TMD)
			Energy Harvesting using Smart Materials
			Modeling and Analysis of Laminated Composite Plates
			Design and Analysis of Piezoelectric MEMS Actuator
3	Dr. Prashant K. Jain	pkjain@iiitdmj.ac.in	Induction conduction based melting
			Automation in 4D PHD
			Image processing for manufacturing
4	Prof. Vijay Kumar Gupta	vkgupta@iiitdmj.ac.in	Kinematic, dynamic and stress analysis of six wheel multi terrain robot
			Fault diagnosis and prognosis of SMPS
			Inverse dynamic analysis of Stewart Platform based mobile robot with compliant mechanism
			Design and control of Six Wheel Multi Terrain Robot
			Design of energy harvester for instant acceleration
5	Dr Mohd Zahid Ansari	zahid@iiitdmj.ac.in	Fabrication, Characterization and Application of Magneto-Rheological Fluid in Vibration Damper
			Design, Fabrication and Application of Piezoelectric Micromanipulator
			Fabrication, Analysis and Application of PU Foam Sandwich Plates for Impact Absorption
6	Dr. Goutam Dutta	gd@iiitdmj.ac.in	Nuclear coupled thermal-hydraulic analysis of reactor dynamics
			Nuclear coupled thermal-hydraulic modelling of xenon oscillations
			Reactor dynamics and design of a control system
			Analysis of fast transients in a nuclear reactor
			Nuclear coupled thermal-hydraulic model development in parallel computing architecture
7	Dr. Himansu Sekhar Nanda	himansu@iiitdmj.ac.in	Computational approaches for development of Bio-CAD for 3D Bio-printing
8	Dr. P.K. Kankar	kankar@iiitdmj.ac.in	Vibration Control in Shock/Impact condition
			Condition monitoring of electronics components like SMPS, transistor etc.