Design Fabrication within the Mechanical Engineering curriculum By Mayur Marathe, Prof. Mayur Marathe Assistant Professor

B.E, M.E

Specialization: CAD/CAM, and Robotics

Established in 2010, NMIMS' Mechanical Engineering offering at MPSTME, Mumbai, comprises 25 full-time faculty members and 9 full-time administrative and technical support staff.

Students can pick from B. Tech, MBA Tech and B. Tech (Integrated) programs. With 19 instructional laboratories, the institute is fully equipped with state-of-the-art scientific instruments and systems. In this vein, the department has cultivated into areas of Composites, Mechatronics, Nanotechnology and Additive Manufacturing. The research work of the faculty members is spread over a vast range of domains spanning Thermofluidics Engineering; Design Engineering; and Manufacturing and Automation Engineering.

When it comes to Design Engineering, a special concern is Design for fabricate (DFM) which encapsulates item plan choices to encourage optimization of the fabricating framework as a cohesive unit.

Recognized as being fundamental to efficiency change, DFM has become significantly popular in the last few years. This has been due to later involvement with the arrangement of progressed fabricating innovation in the industry.

Ergo, it's important to become aware of the wide extent of activities epitomized within the DFM approach. Discourse is partitioned into thought of DFM standards and rules, quantitative assessment strategies, and computer-aided DFM. Basic organization issues are moreover discussed as well.

The module lays emphasis on creating capacities and aptitudes in mechanical plans. These viewpoints underscore critical highlights of efficiency. A "Computer-aided Investigation of Structures" is structured to encourage designing mechanical structures. There is also a significant focus on hypothetical foundations through numerical strategies, liquid mechanics and warm exchanges. Students are thus prepared to ceaseless progress to tackle a dynamic future.