

6.2.1: The institutional Strategic / Perspective plan is effectively deployed

The strategic plan guides the functioning of the institution and ensures academic excellence. Linking and collaborating with industries has been identified as one of the priority areas in the strategic plan for 2017-22 with the following objectives:

- Establishing links with institutions/industry for internships, on-the-job training, project work and exchange of research institutions etc.
- Organize industrial training and internships for the third and final year students.
- Review memoranda of understanding with other institutions, universities, industries, corporate houses, etc.

Active collaboration with industry has been adopted for curriculum development and course delivery (particularly one-credit courses), student projects and consultancy. Several centres of excellence have been set up in collaboration with industry to train both teachers and students in the latest industry technologies. As a step to further strengthen industry partnerships, during the 2021-22 academic year MCET signed a MoU with Capgemini, a global leader that works with corporations to transform and manage their business through the use of technology. The MoU aims to establish a Product Lifecycle Management (PLM) technology lab on the MCET campus and provide training and internships for up to 100 mechanical and automobile engineering students at Capgemini Engineering India. In addition to it, MoU with Virtusa focuses to improve the quality of education for the students through the training of faculty members.

Recent Accomplishments:

- 1989 students completed internship.
- 40 MoUs with various organizations for the benefit of faculty and students.
- 103 students placed via Capgemini MoU.
- 25 students and two faculty members furthered through the Virtusa MoU.
- 18 Centres of Excellence fuels the thirst of internal and external students.

Major Courses offered through Centres of Excellence are listed below

- Design Engineering & Modeling
- Computer Aided Engineering
- Analysis & Testing
- Fatigue-FE Safe
- Matlab & Simulink – xPC Block sets for Rexroth products
- LABVIEW
- Enterprise Architect based UML Patterns
- Welder Training Programs
- Custom Analog and Mixed Signal IC Design
- Verilog – HDL modelling & FPGA implementation of digital systems
- System Design and Verification Using System Verilog – HDL
- FPGA implementation of Image & Signal Processing Algorithms
- Design and Hardware modelling of fundamental Electronics Circuits
- SOLID EDGE

- NX for Design
- Introduction to Finite Element Analysis with NX
- FEMAP–Finite Element Modelling using FEMAP
- PRODUCT DATA MANAGEMENT Introduction to Teamcenter
- DIGITAL MANUFACTURING TECNOMATIX SOFTWARE BUNDLE Plant Simulation Basics
- Factory CAD Basics
- Robcad Basics
- Classic Jack Basics
- Training on Diesel fuel injection system
- Training on Injection pump calibration
- Training on Automotive Electrical systems (Starters and Alternators)
- VFD and Servo System
- CFAE (Certified Factory Automation Engineer)
- Training Programme on Mechatronics and Automation
- Workshop on Industrial Pneumatics
- Workshop on Electro Pneumatics with PLC Systems