

Institutional Distinctiveness

To accomplish the mission and realize the vision of the college, various centres of excellence with state of the art facilities are setup with industry collaboration by the institution. A Center of Excellence is a specialized unit that focuses on a specific area of expertise or domain. It serves as a hub for Knowledge Sharing and Collaboration, Expertise and Specialization, Research and Innovation, Training and Capacity Building, Networking and Partnerships in a particular field. These centres provide ample opportunity for the students and staff to comprehend the latest industry practice and upgrade their knowledge through industry relevant projects using these facilities and the industry knowhow. Centres offer to upgrade the prowess of the technicians who are currently employed by the industry as well, hence serving as a revenue generating model. Further the centres offer trainings, certifications, courses, projects etc. for various types of audience ranging from students to engineers in organizations. The specialized software and hardware in these centres are also used for research, receiving funds and consultancy purposes. The centers are established in industry collaboration with world renowned corporates thus enabling, the students and faculty experience global standards and facilities locally. The 18 centers of excellence available in the campus at present are listed below with their focus area, major activities and number of beneficiaries.

Name of the Centre of Excellence	Focus Area	Activities	Beneficiaries
MCET – BOSCH REXROTH Regional Centre of Competence	Training, consultancy and projects in Industrial Automation	* Training on hydraulics and pneumatics * VAE on PLC and HMI Training * OCC- Industrial Automation Technologies, Fluid Power Technology	2117
MCET – TUV Rheinland Centre for Advanced Training (Welding and NDT)	Skill development training in Arc Welding, Non-Destructive Testing and Automobile trades	* One Credit Course on TIG, MIG and NDT Fundamentals and Practices. * Internship programmes on Hands-on Practice of SMAW/MIG/TIG Process. * Welding & Non Destructive Testing Level	1461

MCET – ALTAIR Centre	Computer Aided Engineering, Finite Element Modelling	* VAC on Finite Element Modelling Using Hypermesh * OCC- Basic Finite Element Analysis Using ANSYS	1617
MCET – ASIC Centre of Excellence	Impart skill set to students in Custom Integrated Circuit on par with present needs of Semiconductor Industry	* Workshop on Analog Design for Medical Devices * VAC on Full Custom Analog IC Design using Cadence EDA Tool * Training on Custom digital IC design using Cadence EDA tool	730
MCET – Centre for Design Analysis and Testing	Provide consultancy services for the automobile and engineering industries.	Offering courses, consultancy, testing and conducting training programs and research	Sakthi Auto Component Ltd, Tiruppur
MCET – Keysight centre for RF communication systems	Offer training for students in Advanced Communication and RF System Design and consultant services	* RF Circuit and Antenna design using ADS * Design and Analysis of Microstrip patch antenna for wireless applications	140
MCET – SIEMENS Centre for Digital Manufacturing	FDP, placement and value added courses on NX-CAD, Teamcentre PLM and Plant Simulation	* NX 1980 CAD Essentials * Summer internship in NX 11.0 CAD essentials * Internship on product data management using team center	2284
MCET – Harita Techserv Centre	Placement and VAC in CATIA	* CATIA V6 training * Basic solid modelling using CATIA V6 * CAD modelling using Creo 2.0	671
MCET – TUV Rheinland Centre for Advanced Training (Automobile Technology)	Impart Knowledge and skill in the automotive field	* Automotive Service Technician level-4 * Workshops and One Credit Courses in Electronic assist vehicle stability control system and Autotronics	337
MCET – Bosch Joint Certification Centre	After Market Services	* OCC on Automobile Engine Starting System, Automobile Alternator and PE Type Fuel Injection Pump	246

		* VAC on Automotive Fuel Injection Pump System and Automotive Electrical System	
MCET – MITSUBISHI ELECTRIC Centre for Factory Automation	Train the students in the area of automation technologies and provide required skill set to get job in automation industry.	* Value added course – Certification course on PLC and HMI	20
MCET – JANATICS Centre of Excellence for Mechatronics and Automation	Training on Pneumatics, Electro pneumatics, PLC, Sensors, Mechatronics Systems and Automation technology	* Suryamitra training, One Credit Courses, Value added training, workshop and projects	1469
MCET – Swelect Centre for Solar PV Training and Research	Develop skilled manpower and research in solar PV technology to cater to the need of current solar industry.	* Skill awareness Training Programs on Photovoltaic Basics * Fundamentals and characteristics of SOLAR PV * Value added courses on Design, construction and Installation of Solar PV System	386
MCET – BOSCH Artisan Training Center	Train the students and unemployed youth in the area of artisan trade.	Value Added Courses, One Credit Courses and workshop on Hands-on Training in Carpentry	114
MCET – FANUC Centre for Advanced manufacturing and Robotics	Provide education and training in the field of robotics and manufacturing (CNC machines and Robotics)	* Skill development Program on Programming on CNC Turning, Milling and Robot * VAC on Robot Programming and CNC Programming on Turning and Milling * Faculty Training on CNC Simulator and Robot training	648
MCET – EmbDes IoT Centre	Equip students with the necessary skill set in design tools and Printed Circuit Boards	* Embedded System Design Using Arduino * Electronics PCB System design using Altium EDA tool	41
The EKKI – MCET International Water	Collection and dissemination of	* Workshop on IoT on Water Pumps	85

Technology Centre	existing knowledge and to provide a hub for interdisciplinary education, developing vocational engineering, diploma and apprenticeship student programs both for students and EKKI professionals	* OCC on Pump Application Engineering	
Electronics Manufacturing Skill Training Center	Electronic Circuit Design with Soldering of Electronic Components and PCB Design.	PMKVY 4.0 Assembly Line Operator	90

The students in the campus have opportunities to learn and practice skill sets of global standards in these centers. These skill sets provide an edge for the students in their career prospects. Later these trained youth find gainful employment in industries enhancing their livelihoods. Efforts are on to set up more such centres to strengthen ties between the institute and the industry.