



Faculty

CITD has availed ILO expert services in various disciplines. About 25 faculty members back by vast experience and trained in Advanced Tooling Techniques under ILO fellowship, impart training to the candidates on the State of the Art Tooling Technology available in the Institute. In addition CITD also engages consultants in specified area

Hostels

The National and International trainees are accommodated in the Hostels available in the campus with recreation facilities.

Publications

CITD has published more than 250 handouts / Reference material on tooling related subject prepared by ILO Experts & CITD faculty for the benefit of the trainees.

TRAINING METHODOLOGY

The Courses at Post Graduated level are designed with 50 percent theory and 50 percent practicals. Theory subjects like Mathematics, Material Science, Fuzzy logic, computer Graphics, FEM etc., are taught by eminent professor at college of Engineering, Osmania University. Other subjects related to Tool Design & Production are taught by CITD. The trainees are exposed to the state of the art technology available at CITD.

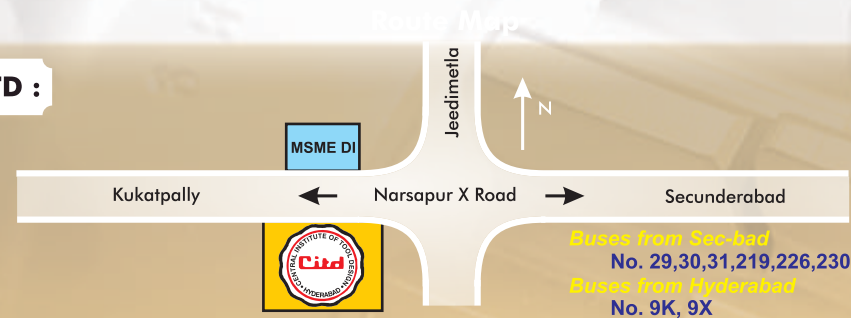
The courses at diploma level are designed with 25 percent theory and 75 percent practicals. These trainees shall be manufacturing the tools on all the precision and CNC machines at CITD and undergo rigorous training including inspection of tools.

CITD accepts commercial orders from Industries and the trainees are used to execute the jobs.

All trainees going out of the portals of CITD are confident in handling Design & Manufacturing of any complicated Precision Components and Tools.



How to reach CITD :



MSME - TOOL ROOM, HYDERABAD CENTRAL INSTITUTE OF TOOL DESIGN

(Government of India Society - Ministry of MSME)
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Sub - Centre Vijayawada :
54 -2-9, Phase III, Autonagar, Vijayawada-520 007. Tel/fax: 0866-2540560, 98854 29054

Sub - Centre Visakhapatnam :
Old Govt. ITI College Campus, Kancharalapalem, Visakhapatnam.

Extension Centre Chennai :
MSME-DI Campus, 65/1 GST Road, Guindy, Chennai-600 032. Tel : 044-2250 0366



स्थापित : 1970
ESTD :1970

MSME - TOOL ROOM, HYDERABAD CENTRAL INSTITUTE OF TOOL DESIGN

(A Government of India Society - Ministry of MSME)

(An ISO 9001 : 2008, ISO 29990 : 2010 & ISO 14001 : 2004 Certified Institution)



PLACEMENTS



THE INSTITUTE FOR ENHANCEMENT OF TECHNOLOGY



About CITD

About CITD: The Central Institute of Tool Design is a premier Institute in Asia to provide specialised training courses in Tool Engineering, CAD/CAM and Automation. The Institute was established in the year 1968 by the Government of India with the assistance of UNDP and ILO as an executing agency. The Institute conducts training programmes right from Diploma to Post Graduation level. The institute is also conducting 2 M.E. programmes (CAD/CAM & Tool Design) in collaboration with Osmania University and M-Tech (Mechatronics) in collaboration with JNTUH, Hyderabad. The Institute conducts International training programmes in CAD/CAM, Tooling and Automation areas.

In addition to the training programmes, the Institute also undertakes Design and manufacture of Toolings/Precision Components, Assemblies and Automation Systems. The Tool Room is equipped with sophisticated machines such as CNC 5-Axis & 4-Axis Vertical machining centres from Bridgeport, USA, Hardinge CNC Lathe, CNC Charmilles Roboform EDM, CNC AGIE Wirecut EDM machine, Kellenberger CNC Cylindrical Grinding etc., supported by a Metrology Laboratory with CNC CMM with Reverse Engineering Facility and a calibration centre to maintain Quality standards.

The Institute is having a Library and Documentation centre with vast collection of Books, Journals, Literature and Standards.

The CAD/CAM centre at CITD is equipped with around 500 latest Pentium Workstations, Licensed Software's like Autodesk Inventor Series, I-DEAS, PRO-E, CATIA, UNIGRAPHICS, ANSYS, HYPERMESH, NASTRAN, ABBAQUS, LS DYNA, MOULDFLOW, SOLIDCAST, SOLIDWORKS, Q- FORM, MASTERCAM, DELCAM etc., The centre is also having CNC Table top Lathe and Milling machines from Emco-meir, Austria. The centre provides night lab facility also.

The Automation centre at CITD is equipped with various simulator training kits from FESTO, Germany like Pneumatics Trainer, Electro-Pneumatics Trainer, Hydraulics Trainer, Electro-Hydraulics Trainer, Closed Loop Hydraulics Trainer, PLC Trainer, Sensors Trainer, Modular Production System, Cut Section models of various Elements, Transparent working models of Hydraulic elements etc.,

The VLSI & Embedded systems labs are equipped with latest hardware like Pentium Work Stations with Linux operating system, Verilog, FPGA kits, VHDL, Cadence including the Analog Controls, Tanner Tools, Micro – Controllers – 8051, AVR, Zylog, Arm, Keil software, VX Works etc.,

The Institute in order to provide hands on exposure to the engineering student fraternity on the latest hardware, software and CNC machines, metrology and automation, planning to organise the following courses during summer holidays.



DETAILS OF TRAINEES AVAILABLE FOR PLACEMENT

S.No.	Course details	Eligibility of admission	Duration of study	Batch strength	Selection procedure	Project work / Internship/In-plant training	Course content
1	Diploma course in Tool, Die & Mould Making (DTDM)	SSC	4 Years	60	Through an All India level Entrance Test conducted by CITD	11 months In-plant training from August to June (This course is approved by AICTE, New Delhi, and recognized by the State Board of Technical Education, Govt. of A.P.)	Communication Skills, Applied Mathematics, Applied Physics, Applied Chemistry, Applied Mechanics, Engineering Drawing, Workshop Technology, Engineering Metrology, Workshop Practice, Independent Study Technique, Strength of Materials, Material Technology, Computer Applications, Design of Jigs & Fixtures, Gauges, Design of Press Tools, Plastic Moulds, CNC Technology, Thermal Engg. Ren. Energy, Sociology, Hydraulics & Pneumatics, Electrical / Electronics Engg., Design of Die Casting Dies, Design of Forging Dies, Heat Treatment, Entrepreneurship Development, Prod. Planning & Costing, Industrial Management.
2	Diploma course in Production Engineering (DPE)	SSC	3 Years	60	Through an All India level Entrance Test conducted by CITD	6 months In-plant training from August to Jan. (This course is approved by AICTE, New Delhi, and recognized by the State Board of Technical Education, Govt. of A.P.)	Communication Skills, Applied Physics, Chemistry, Mathematics, Engg., Drawing, W/S Technology, W/s practice, Fluid Mechanics, Machine drg, Elec. Tech. & Basic Electronics, Theory of Machining, Tool Engineering, Entrepreneurship Development, Engg. Metrology, Strength of Materials, Prodn. Tech., Thermal Engg., CAD/CAM, Power Plant Engg, Indl. Management.
3	Diploma course in Electronics & Communication Engineering (DECE)	SSC	3 Years	60	Through an All India level Entrance Test conducted by CITD	6 months In-plant training from August to Jan. (This course is approved by AICTE, New Delhi, and recognized by the State Board of Technical Education, Govt. of A.P.)	Communication Skills, Applied Physics, Chemistry, Mathematics, Entrepreneurship Development, Adv. communication systems, Electronic Measuring Instruments Indl. Electronics, Data communications & Computer Networks, Microprocessors, Digital Electronics, Audio & Video Systems, Indl. Management, Engg. Drg., Micro Controllers, Electronic Circuits.
4	Diploma course in Automation & Robotics Engineering (DARE)	SSC	4 Years	60	Through an All India level Entrance Test conducted by CITD	6 months In-plant training from August to Jan. (This course is approved by AICTE, New Delhi, and recognized by the State Board of Technical Education, Govt. of A.P.)	Communication Skills, Applied Physics, Chemistry, Mathematics, Entrepreneurship Development,, Electronic Measurements & Sensor Technology, Robotic Engineering, PLC & SCADA, CAD/CAM, Electronic Circuits, Digital Electronics, Hydraulics, Microprocessors, Indl. Management, Micro Controllers, Indl. Electronic Dynamics of Machines.
5	Advanced CNC Machinist Course (ACMC)	SSC with ITI (Fitter/Turner/Machinist / Tool & Die Maker	1 Year	---	5 Students every month (First come first served)	---	Will be given training on G-codes, M-codes, CNC Milling, CNC Turning and CNC Wirecut machines.
6	Post Diploma course in Tool Design (PDTD)	DME/DPE/DTDM	1 Year	60	Through an All India level Entrance Test conducted by CITD	---	The students for Post Diploma course in Tool Design (PDTD) are selected at the intake level of DME. The course is approved by AICTE, New Delhi. The duration of the course is one year and the students are exposed in Tool Engineering subjects like Design of Press Tools, Plastic Moulds, Die Casting Dies, Cutting Tools. Gauges, Jigs & Fixtures, Low Cost Automation Techniques and software's like AutoCAD, ProE, UG, and Catia etc.
7	Master of Engineering Specialization in Tool Design (M.E.- Tool Design) In collaboration with Osmania University	B.E./B.Tech. (Mech./Prodn.)	2 Years	25	Through an All India level Entrance Test conducted by CITD	9 to 11 months Project Work / Internship from August to June / July	<p>To bridge the gap between academic Institutes and the Industry, CITD has entered into an MOU with the Osmania University to conduct Master of Engineering programme in Mechanical Engineering with specialization in Tool Design (M.E. – Tool Design) and CAD/CAM (M.E. – CAD/CAM) from the academic year 2002-2003. The students are selected through an open advertisement on all India basis through entrance examination conducted by Osmania University.</p> <p>The theory classes are conducted in Osmania University under the able guidance of well-qualified Professors and at CITD under well qualified & experienced faculty. The practical are conducted at CITD.</p> <p>Theory Subjects like Design of Press Tools, Plastic Moulds, Die Casting Dies, Forging Dies, Jigs & Fixtures, Design of Metal Cutting Tools, Gauges & accessories, GD&T, In addition to the above, the students are exposed in other subjects like Material Science, Advanced Metrology, Finite Element Techniques, Automation, etc.,</p> <p>Software Exposure to AutoCAD, CATIA V5, Pro-E, Unigraphics, Ansys, Hypermesh, etc.</p>

DETAILS OF TRAINEES AVAILABLE FOR PLACEMENT

S.No.	Course details	Eligibility of admission	Duration of study	Batch strength	Selection procedure	Project work / Internship/In-plant training	Course content
8	Master of Engineering Specialization in Mech. CAD/CAM (M.E.CAD/CAM) In collaboration with Osmania University	B.E./B.Tech. (Mech./Prodn. / Mechatronics)	2 Years	25	Through an All India level Entrance Test conducted by CITD	9 to 11 months Project Work / Internship from August to June / July	<p>To bridge the gap between academic Institutes and the Industry, CITD has entered into an MOU with the Osmania University to conduct Master of Engineering programme in Mechanical Engineering with specialization in Tool Design (M.E. – Tool Design) and CAD/CAM (M.E. – CAD/CAM) from the academic year 2002-2003. The students are selected through an open advertisement on all India basis through entrance examination conducted by Osmania University.</p> <p>The theory classes are conducted in Osmania University under the able guidance of well-qualified Professors and at CITD under well qualified & experienced faculty. The practical are conducted at CITD.</p> <p>Theory Subjects like Computer Aided Modeling and Design, Computer Aided Mechanical Design and Analysis, Finite Element Techniques, Computer Integrated Manufacturing, Automation, Advanced Metrology, Control of Dynamic Systems, Vibrational Analysis and Condition Monitoring, In addition to the above core subjects, some of the other optionals were Production Design and Process Planning, Neural Networks and Fuzzy Logic, Optimization Techniques.</p> <p>Software Exposure to CATIA, Pro-E, UNIGRAPHICS, IDEAS, SOLIDWORKS, ANSYS, HYPERMESH</p>
9	Master of Technology Specialization in Mechatronics (MTM) In collaboration with JNTUH, Hyderabad	B.E./B.Tech. (Mech. /Prodn./ ECE/ EEE/EIE/ Automobile Engg.)	2 Years	25	Through an All India level Entrance Test conducted by CITD	9 to 11 months Project Work / Internship from August to June / July	<p>To bridge the gap between academic Institutes and the Industry, CITD has entered into an MOU with Jawaharlal Nehru Technological University Hyderabad (JNTUH) to conduct Master of Technology programme in Mechatronics from the academic year 2009-2010. The theory classes are conducted in JNTUH under the able guidance of well-qualified Professors and at CITD under well qualified & experienced faculty. The practical are conducted at CITD.</p> <p>Core subjects like - Applied Industrial Pneumatics, Applied Industrial Hydraulics, Automation in Manufacturing, Industrial Electrical & Electronics, Control Lab: (Pneumatic, Hydraulics, Electrical & Electronics Control), Micro Controller & Applications, Fuzzy Logic & Neural Networks, MEMS, Industrial Robotics, Applied Mechatronics Lab: (Robotics, CNC, PLC etc).</p> <p>Electives - Precision Engineering, Advanced CNC Technology, Electro-Optic Systems, Control systems, Instrumentation, Power Electronics & Drives, Intelligent Manu-facturing Systems, Simulation, Modeling of Manufacturing Systems, Production Design & Assembly Automation, Autotronics & Vehicle Intelligence, Computer Aided Metrology & Machine Vision, Sensor Technology</p>
10	Post Graduate course in Tool Design (PGTD)	B.E./B.Tech. (Mech./Prodn.)	1½ years	60	Through an All India level Entrance Test conducted by CITD	6 months Project Work / Internship from August to December	<p>Theory subjects like - Design of Press Tools, Jigs & Fixtures, Plastic Moulds, Die Casting Dies, Gauges, Cutting Tools, Low Cost Automation techniques and Softwares like - AutoCAD, Pro-E, Unigraphics, Master CAM, etc.</p>
11	Post Graduate course in CAD/CAM for Tool Engineering (PGCTE)	B.E./B.Tech. (Mech./Prodn.)	1½ year	40	Through an All India level Entrance Test conducted by CITD	5 months Project Work / Internship from August to December	<p>TOOL DESIGN SUBJECTS: Design Practice, Geometric Dimensioning & Tolerance (GD & T), Materials and Heat treatment, Cutting Tools, Jigs and Fixtures, Press Tools, Moulds for Plastics, Die casting Dies, Design for Manufacturing, Metrology and Gauges. And Reverse Engineering, Finite Element Analysis.</p> <p>SOFTWARES : AutoCAD, PRO-E (I & II), CATIA, UNIGRAPHICS, ANSYS, HYPERMESH, SolidWorks, DelCAM, CNC PROGRAMMING, MasterCAM</p>
12	Post Graduate course in Mechatronics (PGM)	B.E./B.Tech. (Mech./ECE, EIE, Automation)	1½ year	40	Through an All India level Entrance Test conducted by CITD	6 months Project Work / Internship from August to December	<p>Applied Industrial Pneumatics, Applied Industrial Hydraulics, Mechanical engineering, Industrial Electrical & Electronics, Control Labs: Pneumatic, Hydraulics, Instrumentation and sensor technology, Seminar, Micro Controller & Applications, Fuzzy Logic & Neural Networks, MEMS, Industrial Robotics, Applied Mechatronics Labs: Robotics, CNC, PLC, Seminar, Comprehensive Viva-voce, Seminar, Project Work</p>

DETAILS OF TRAINEES AVAILABLE FOR PLACEMENT

S.No.	Course details	Eligibility of admission	Duration of study	Batch strength	Selection procedure	Project work / Internship/In-plant training	Course content
13	Post Graduate course in VLSI & Embedded Systems (PGVES)	B.E./B.Tech. (ECE, EEE, EIE)	1½ year	40	Through an All India level Entrance Test conducted by CITD	5 months Project Work / Internship from August to December	<p>I Semester: FOUNDATION OF VLSI CAD, DIGITAL VLSI DESIGN, MICRO-CONTROLLER AND EMBEDDED SYSTEMS DESIGN, ANALOG INTEGRATED CIRCUIT DESIGN, VLSI –CAD, REAL TIME OPERATING SYSTEMS & Laboratory. EMBEDDED SYSTEMS LAB: Programming Languages: C & Data Structures, UNIX, Assembly language, Embedded c., Processors like x85, x86, ARM7, Controllers like 8051, PIC Microcontroller Softwares: GCC compiler, Assemblers, KEIL-IDE tool, Simulators (Top view simulator, Proteus).</p> <p>Hardware: 8051, PIC, ARM7 (LPC2148) Boards with interfacing devices like GSM, GPS, RFID, Zigbee Touch screen etc...</p> <p>II Semester: MIXED SIGNAL IC DESIGN, HIGH SPEED VLSI DESIGN, LOW POWER VLSI DESIGN, ARM SYSTEM-ON-CHIP, ADVANCED LOGIC SYNTHESIS DIGITAL SIGNAL PROCESSING</p> <p>CAD SYSTEMS LAB: MATLAB(SIMULINK HDL CODER, SIGNAL PROCESSING TOOL BOX), DIGITAL DESIGN, FRONT-END-DESIGN(DIGITAL)(RTL-COMPILER)(CADENCE), BACK-END-DESIGN(SOC-ENCOUNTER)(CADENCE), ANALOG- MIXED-SIGNAL-DESIGN,</p>
14	Master Certificate in CAD/CAM (MCADCAM)	Degree / Diploma in Mechanical Engineering	6 months	20	First Come First Serve	Placement after completion of course	<ul style="list-style-type: none"> • Auto CAD - 2D, 3D modeling • Solid works - Modeling, Surfacing, Assembly & Drafting • Auto Desk Inventor - Modeling, Assembly & Drafting • PRO/E - Modeling, Assembly & Drafting, Mechanical & Manufacturing • Catia - Modeling, Surfacing, Assembly, Drafting & Sheet Metal • Unigraphics - Modeling, Surfacing, Assembly, Drafting & Manufacturing • MASTERCAM - Design, Turning & Milling • ANSYS - Structural, Thermal Analysis & CFX • HYPERMESH - Shell Mesh & Solid Mesh • DELCAM - Design & Milling • NC, CNC Programming - Using CNC Desktop Mill & Lathe Machines
15	Master Certificate in Computer Aided Tool Engineering (MCTE)	Degree / Diploma in Mechanical Engineering	6 months	20	First Come First Serve	Placement after completion of course	<ul style="list-style-type: none"> • Auto CAD - 2D, 3D modeling • Solid works - Modeling, Surfacing, Assembly & Drafting • Auto Desk Inventor - Modeling, Assembly & Drafting • PRO/E - Modeling, Assembly & Drafting, Mechanical & Manufacturing • Catia - Modeling, Surfacing, Assembly, Drafting & Sheet Metal • Unigraphics - Modeling, Surfacing, Assembly, Drafting & Manufacturing • MASTERCAM - Design, Turning & Milling • ANSYS - Structural, Thermal Analysis & CFX • HYPERMESH - Shell Mesh & Solid Mesh • DELCAM - Design & Milling • NC, CNC Programming - Using CNC Desktop Mill & Lathe Machines • Tool Design - GD & T, Design Practice, Tooling Materials, Press Tools, Plastic Moulding Tools, Die Casting Dies, Jigs & Fixtures, Cutting Tools • Metrology & Reverse Engineering
16	Master Certificate in Mechatronics (MCM)	B.E./ B.Tech / M.Tech Msc Electronics / Electrical / CSE / Instrumentation or Equivalent	6 months	30	First Come First Serve	Placement after completion of course	Pneumatics, Hydraulics, PLC Programming, Mechanical Module, Mechatronics

