



MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA



PROSPECTUS FOR DIPLOMA COURSES 2026

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Central Institute of Tool Design
Balanagar, Hyderabad, PIN-500037

ABOUT

Central Institute of Tool Design (CITD) an ISO 9001:2015, 14001:2015 & 50001:2018 certified premier technical training institution of India, established in 1968; provides specialised training courses in Tool Design & Manufacturing, CAD, CAM, CAE, VLSI, Embedded Systems, Electronics, Mechatronics and Robotics at various levels such as Certificate, Diploma, Post Diploma, Post Graduate Diploma and M.E.

The Institute was established in the year 1968 by Government of India with the assistance of UNDP and ILO as an executing agency. It was converted into a Government of India Society in 1970 under the administrative control of the Ministry of MSME. The Development Commissioner; Ministry of MSME is the ex-officio Chairman of the Governing Council. The Principal Director is the Chief Executive Officer of the Institute.

AIMS & OBJECTIVES

a) Training of the technical personnel in Design and Manufacture of Jigs & Fixture, Dies & Moulds, Press Tools, CAD/CAM, CAE, VLSI & Embedded Systems, Mechatronics & Robotics.

b) Provision of advisory, consultancy and common service facility & service to small scale units including assistance in the design and development of tools for various processes, Calibration of Mechanical Measuring Instruments.

c) Recommending measures to standardize tools and tooling elements, components of Jigs & Fixtures, Dies & Moulds, Press Tools and other tools.

d) Production of Jigs & Fixtures, Press Tools, Dies & Moulds, Gauges and Special Cutting Tools subject to the condition that job works undertaken by the Institute should suit to the needs of the training.

The Institute has a well equipped Tool Room with sophisticated CNC machines like CNC EDM, CNC Wire Cut EDM 4-Axis & 5-Axis High Speed Machining Centres, and 3D Coordinate Measuring Machine with Scanning & Digitization facilities. The Institute is equipped with latest version of EMCO Tabletop CNC Turning and Milling machines with closed loop system to impart training in CNC Programming.

The Calibration laboratory is set up in CITD with Universal Horizontal Microscope ULM OPAL600 Carl Zeiss Technology, Germany and Slip Gauge Measuring Unit 826 with Millitron 1240, Mahr, Germany to Calibrate Limit Gauges, Micrometers, Dial Indicators, etc.

The CAD/CAM Centre is equipped with latest configuration workstations and softwares like AutoCAD, Pro-E, CATIA, ANSYS, Hypermesh, Unigraphics, Master CAM, Del CAM, Nastran & Patron, ABACUS, LS-DYNA, Q-FORM, SOLIDCAST, etc.

The Institute is also equipped with an Automation Centre with Programmable Logic Control Systems, Hydraulic, Pneumatic and Electronic Controls with Simulators.

CITD has a Library with a collection of technical books in Tool & other Engineering fields and subscribes to various International journals like CIRP Annals, American Machinist, Journal of Engineering Materials & Technology (ASME), Precision Engineering (JAPAN) and Precision Tool Maker, etc. The documentation centre collects and organizes information and data useful for the technological advancement in Tool Engineering. For the dissemination of information, the centre also provides technical enquiry service.

DIPLOMA COURSES

- **Course No.1**
Diploma in Tool, Die & Mould Making (DTDM)
- **Course No.2**
Diploma in Electronics & Communication Engineering (DECE)
- **Course No. 3**
Diploma in Automation & Robotics Engineering (DARE)
- **Course No. 4**
Diploma in Production Engineering (DPE)

Duration	3 Years (6 Semesters)
Age	Maximum 19 years as on 22 th May, 2026. Relaxation up to 5 years for SC/ST Candidates.
No. of Seats	60 Each
Mode of Selection	Through Entrance Examination
Eligibility for Admission	10 th Pass
Course Fee	₹24,000/- per Semester Free for SC/ST Candidates

Detailed syllabus of all the courses can be found at the end.

HOW TO APPLY

How to Apply

On-line: Candidates can apply online at CITD website under the following:

Link: **Diploma Admissions- 2026**

URL: <https://citd.in/diploma-engineering-courses.php>

Scan:



Off-line: Application form can be downloaded from our website www.citdindia.org under the **link "Diploma Admissions - 2026"** or can be collected from CITD Admissions Desk on any working day from 10:00 a.m. to 05:00 p.m. and filled in application forms can be sent to **'The Principal Director, CITD, Balanagar, Hyderabad - 500 037'** along with necessary documents, photograph & application fee or can be deposited at CITD Admissions Desk from 10:00 a.m. to 05:00 p.m.

MODE OF PAYMENT OF APPLICATION FEE

"Application cost ₹1000/- for General Category and ₹500/- for SC/ST Category"

For On-line application:

Through the link provided in online application format or scan QR Code for direct transfer.

For Off-line application:

✓ *By way of Demand Draft drawn in favor of **Principal Director, CITD, Hyderabad***

Further details can be obtained from **Room No.102, Diploma Block, Central Institute of Tool Design, Balanagar X Road, Balanagar, Hyderabad-500037**, on any working day between 10:00 a.m. and 5:00 p.m.

ENTRANCE EXAMINATION

Syllabus

- 1) Mathematics,
- 2) Science,
- 3) English,
- 4) Aptitude and General Knowledge of 10th Standard.

Duration

1½ hours (Objective Type).

Declaration of Result

Merit list of the candidates will be displayed on the notice board of the institute as well as on Website www.citd.in

As per the list, all the interested candidates are required to be present on the counselling day as per the counselling dates along with all the original certificates & prescribed fees etc.

Venue (only for entrance, may subject to change)

University College of Engineering
Osmania University
Hyderabad – 500 007

Use of Unfair Means

Use of unfair means by candidate at the entrance examination whether detected at the time of examination, evaluation or at any stage will lead to cancellation of his/her admission into the course.

RESERVATION

- Reservation exists as per Govt. of India Rules. Age Relaxation for SC/ST category candidates exist as per Govt. of India Rules.
- EWS reservation applicable as per supernumeric seats in each branch, as per Govt. of India norms.

APPROVAL & RECOGNISATION

- Diploma in Tool, Die & Mould Making (DTDM) is approved by AICTE, New Delhi, and recognised by the State Board of Technical Education and Training, Govt. of Telangana as equivalent to Diploma in Mechanical Engineering (DME).
- Diploma in Electronics and Communication Engineering (DECE) is approved by AICTE, New Delhi, and recognised by the State Board of Technical Education and Training, Govt. of Telangana as equivalent to Diploma in Electronics & Communication Engineering (DECE).
- Diploma in Automation & Robotics Engineering (DARE) is approved by AICTE, New Delhi, and recognised by the State Board of Technical

Education and Training, Govt. of Telangana as equivalent to equivalent to Diploma in Electronics & Communication Engineering (DECE).

- Diploma in Production Engineering (DPE) is approved by AICTE, New Delhi, and recognised by the State Board of Technical Education and Training, Govt. Telangana as equivalent to Diploma in Mechanical Engineering (DME).

DETAILS OF FEES & PAYMENT

S. No.	Item/Fees	Amount
1	Registration Fee	₹1,000/-
2	Course Fee Per Semester	₹ 24,000 /-
3	Caution Deposit	₹1,000/-

Course fee of every semester from 2nd semester onwards should be paid within 30 working days from the date of commencement of semester.

COUNSELLING

Intimation of Date of Counseling

The date of counselling will intimated to the qualifying candidates through SMS/Whatsapp/E Mail and notification through our website.

Documents Required at the Time of Counselling for Admission

- Original certificates of qualifying examination i.e., SSC/10th
- Transfer Certificate
- Date of Birth Certificate
- Bonafide Certificate
- Integrated Caste Certificate (If applicable)
- Latest Income Certificate
- Aadhar Card

- Three passport size colour photograph with name tag and one stamp size photo.
- Certificate of physical fitness from any Assistant Civil Surgeon. The Institute reserves right to send the candidate for further Medical examination, if necessary.

The original certificates once submitted will be scrutinised and returned back after verification by DC-MSME. Therefore candidates are advised to take sufficient number of photo copies to keep with them before submitting the originals to CITD at the time of counselling.

POST ADMISSION INFORMATION & GUIDELINES

1. Medium of instruction – **English**
2. Working hours 08:45 a.m. to 05:00 p.m. with Sunday as weekly holiday. (Weekly holidays & working hours are liable to change.)
3. Student shall be allowed to appear for the end examinations if he/she possesses **minimum 75%** attendance only. It shall be the responsibility of trainees, parents/guardian of the trainee to maintain the minimum percentage of attendance prescribed by the Institute. Institute shall not have any obligation /liability in this regard. No request for permission for waiver of minimum prescribed percentage of attendance will be entertained.
4. Safety Goggles, Vernier & Micrometer : Every Diploma trainee must purchase at his / her own cost one Safety Goggles, One Vernier 0-150 mm and one micrometer 0-25 mm, and bring for practicals and for tests as applicable.
5. **Hostel:** Limited hostel facility is available.
6. **Uniforms:** All Diploma trainees are required to get the uniforms as prescribed by the Institute, stitched at their own cost and attend the training in uniform and with safety shoes every day. All trainees have to get safety shoes, safety goggles and wear during practical training.
7. No travelling allowance or any other allowance will be paid for attending entrance exam, joining the course or on termination thereof.
8. Final year trainees are exposed to campus interviews, by intending industries. However, the Institute does not guarantee any employment or absorption.
9. The trainees shall not cause any damage or loss to the property of the Institute, failing which they are liable to bear the loss.
10. Any information given in the application by the candidate, if, found incorrect after selection, the trainee is liable for such punishment as may be deemed fit including his/her disqualification and / or dismissed from training course.
11. The trainees are expected to complete the assignments as per schedule of training programs.
12. The trainees will have to strictly undergo the training as per the schedule and instructions and comply with all the rules of discipline as may be in force from time to time. Copying / malpractice during the examinations will be viewed seriously.
13. The trainees are not permitted to join for any other part-time course without the permission of the Institute.
14. The trainees are expected to maintain utmost discipline and good manners inside and outside the campus and not get involved in activities which cause blemish to the good image of the Institute.
15. The Institute reserves the right to fill – up any vacant seat from among the candidates present at the time of counselling as per the merit, subject to payment of requisite fee.
16. No request for extension of time for submission of proof of pass or submission of original and the trainees have to abide by these rules.

17. The Institute reserves the right to alter, vary change and / or modify the rules governing the admissions, or any other procedure from time to time depending upon exigencies of training and the trainees have to abide by these rules.

18. The trainees have to follow the rules and regulations made by the Institute pertaining to any departments, examinations, hostels, discipline etc.

19. The Institute shall take all precautionary measures with regard to safety. However, the trainees should decide to join the course at their own free will and at their own risk. In case of any injury or any disablement (temporary/permanent) suffered by the trainees during the course due to any accident or otherwise, the Institute shall not be liable to pay any compensation whatsoever. The trainees shall indemnify the Institute in this account.

20. Trainees shall arrange at their cost, all stationary, drawing and other instruments and books prescribed for the course.

21. Ragging of any kind will be viewed seriously and offenders shall be liable to be prosecuted under the law. Their training will be terminated and the fee paid by them shall be forfeited. They will not be allowed to rejoin the semesters/course afresh.

22. The trainees should give an undertaking to abide by the rules & regulations of the training.

23. The institute reserves the right to terminate the trainee at any time at its discretion for misconduct/indiscipline/irregular attendance/breach of rules etc. In such an event, the course fee paid by the candidates shall not be refunded.

24. Jurisdiction: All matters concerning the admissions and conducting the course shall be subject to Hyderabad Jurisdiction only.



Important Dates

- ❖ **Commencement of Online/Offline Application** : 01-03-2026 (Sunday), from 11:00 AM
- ❖ **Closing of Online/Offline Application** : 22-05-2026 (Friday) till 05:00 PM
- ❖ **Date of Entrance Exam (Tentative)** : 24-05-2026 (Sunday)
- ❖ **Centre for Entrance Examination** : Hyderabad

Our Major Recruiters



Contact Details:
Admission Desk at Diploma Block
Phone No.- 9502405170, 040-29561795
E-Mail:- training@citdindia.org,
Website: www.citd.in

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SEMESTER WISE SYLLABUS OF EACH DIPLOMA COURSE**DTDM – 3 YEARS (6 SEMESTERS)**

Subject Code	Name of the Subject
SEMESTER - I	
TD101	Technical Communication Skills - I
TD102	Engineering Mathematics - I
TD103	Applied Science - I
TD104	Workshop Technology - I
TD105	Engineering Materials
TD106	Technical Communication Skills Lab - I
TD107	Applied Science Lab - I
TD108	Workshop Technology Lab-I (Bench,Turning)
TD109	Computer Fundamentals & Hardware Lab
TD110	Engineering Drawing - I (Practice)
SEMESTER - II	
TD201	Technical Communication Skills- II
TD202	Engineering Mathematics - II
TD203	Applied Science - II
TD204	Workshop Technology - II
TD205	Engineering Mechanics
TD206	Technical Communication Skills Lab - II
TD207	Applied Science Lab - II
TD208	Workshop Technology Lab - II (Milling,Grinding)
TD209	Engineering Drawing - II (Practice)
TD210	Life Skills Lab (Communication, Yoga & Sociology)
SEMESTER - III	
TD301	Advanced Machine Tool Technology
TD302	Strength of Materials - I
TD303	Thermal Engineering & Renewable Energy Systems
TD304	Design of Press Tools - I
TD305	Computer Aided Design & Drafting (AutoCAD & Solid Works)
TD306	Advanced Machine Tool Technology Lab (Jig Boring, EDM & Wirecut)
TD307	Strength of Materials Lab
TD308	Design of Press Tools - I (Practice)
TD309	Computer Aided Design & Drafting Lab (AutoCAD 2D,3D & Solid Works)
TD310	Basic Meterology Lab

SEMESTER - IV	
TD401	Strength of Materials - II
TD402	Metallurgy & Heat Treatment
TD403	Design of Moulds - I
TD404	Design of Press Tools - II
TD405	Design of Jigs, Fixtures & Gauges
TD406	Metallurgy Lab
TD407	Design of Moulds- I (Practice)
TD408	Design of Press Tools - II (Practice)
TD409	Design of Jigs, Fixtures & Gauges(Pactice)
TD410	Electrical & Electronics Engineering Lab
SEMESTER - V	
TD501	Design of Moulds - II
TD502	C.N.C. Programming & Machining
TD503	Quality Management Systems
TD504	Hydraulics & Pnuematics
TD505	Theory of Metal Cutting
TD506	Design of Moulds - II (Practice)
TD507	CNC Programming & Machining Lab
TD508	Advanced Metrology Lab
TD509	Hydraulics & Pneumatics Lab
TD510	Minor Project
SEMESTER - VI	
TD601	Industrial Management & Entrepreneurship Development
TD602	Production Planning and Estimation & Costing
TD603	Computer Aided Manufacturing (Master CAM/Delcam/NX CAM)
TD604	Design of Die Casting Dies
TD605	Design of Forging Dies
TD606	CNC Machining Lab
TD607	Design of Die Casting Dies (Practice)
TD608	Design of Forging Dies (Practice)
TD609	Employability Skills Lab
TD610	Major Project

DECE – 3 YEARS (6 SEMESTERS)

Subject Code	Name of the Subject
SEMESTER - I	
EC101	Technical Communication Skills- I
EC102	Engineering Mathematics - I
EC103	Applied Science - I
EC104	Basic Electrical and Electronics Engineering
EC105	Computer Fundamentals & Hardware
EC106	Technical Communication Skills Lab - I
EC107	Applied Science Lab - I
EC108	Electrical and Electronics Engineering Lab
EC109	Computer Fundamentals & Hardware Lab
EC110	Engineering Drawing - I (Practice)
SEMESTER - II	
EC201	Technical Communication Skills- II
EC202	Engineering Mathematics - II
EC203	Applied Science - II
EC204	Electronic Devices & Circuits
EC205	Programming in C & Python
EC206	Technical Communication Skills Lab - II
EC207	Applied Science Lab - II
EC208	Electronic Devices & Circuits Lab
EC209	Programming In C & Python Lab
EC210	Life Skills Lab (Communication, Yoga & Sociology)
SEMESTER - III	
EC301	Digital Electronics
EC302	Analog Communication
EC303	Linear Integrated Circuits & Applications
EC304	Network Analysis
EC305	Data Communication & Computer Networks
EC306	Digital Electronics Lab
EC307	Analog Communication Lab
EC308	Linear Integrated Circuits Lab
EC309	Network Analysis Lab
EC310	Data Communication & Computer Networks Lab

SEMESTER - IV	
EC401	Microcontroller and Applications
EC402	Microwave Communication
EC403	Digital Communication
EC404	Consumer Electronics
EC405	Electronic Test & Measuring Instruments
EC406	Microcontroller and Applications Lab
EC407	Microwave Communication Lab
EC408	Digital Communication Lab
EC409	Electronic Measuring Instruments Lab
EC410	PCB Designing & Fabrication Lab
SEMESTER - V	
EC501	Mobile & Wireless Communication
EC502	Industrial Electronics
EC503	Industrial Automation (PLC, HMI & SCADA)
EC504	Advanced Microcontroller
EC505	Industrial Management & Entrepreneurship Development
EC506	Mobile & Wireless Communication Lab
EC507	Industrial Electronics Lab
EC508	Industrial Automation (PLC, HMI & SCADA) Lab
EC509	Advanced Microcontroller Lab
EC510	Minor Project
SEMESTER - VI	
EC601	Digital Circuit Design using Verilog HDL
EC602	Advanced Electrical Engineering
EC603	Internet of Things (IoT)
EC604	Robotics
EC605	Artificial Intelligence & Machine Learning
EC606	Digital Circuit Design using Verilog HDL Lab
EC607	Advanced Electrical Engineering Lab
EC608	Robotics & Internet of Things (IoT) Lab
EC609	Employability Skills Lab
EC610	Major Project

DARE – 3 YEARS (6 SEMESTERS)

Subject Code	Name of the Subject
SEMESTER - I	
AR101	Technical Communication Skills - I
AR102	Engineering Mathematics - I
AR103	Applied Science - I
AR104	Computer Fundamentals & Hardware
AR105	Basic Electrical and Electronics Engineering
AR106	Technical Communication Skills Lab - I
AR107	Applied Science Lab - I
AR108	Computer Fundamentals & Hardware Lab
AR109	Electrical and Electronics Engineering Lab
AR110	Engineering Drawing - I (Practice)
SEMESTER - II	
AR201	Technical Communication Skills - II
AR202	Engineering Mathematics - II
AR203	Applied Science - II
AR204	Electronic Devices & Circuits
AR205	Programming in C & Python
AR206	Technical Communication Skills Lab - II
AR207	Applied Science Lab - II
AR208	Electronic Devices & Circuits Lab
AR209	Programming In C & Python Lab
AR210	Life Skills Lab (Communication, Yoga & Sociology)
SEMESTER - III	
AR301	Digital Electronics
AR302	Electronic Test & Measuring Instruments
AR303	Mechanisation Analysis & Synthesis of Linkages
AR304	Industrial Pneumatics
AR305	Sensors and Transducers
AR306	Digital Electronics Lab
AR307	Electronic Test & Measuring Instruments Lab
AR308	Industrial Pneumatics Lab
AR309	Sensors and Transducers Lab
AR310	PCB Designing & Fabrication Lab

SEMESTER - IV	
AR401	Microcontroller and Applications
AR402	Industrial Electronics
AR403	Industrial Hydraulics
AR404	Linear Integrated Circuits and Applications
AR405	Industrial Electrical Systems
AR406	Microcontroller and Applications Lab
AR407	Industrial Electronics Lab
AR408	Industrial Hydraulics Lab
AR409	Linear Integrated Circuits Lab
AR410	Industrial Electrical Systems Lab
SEMESTER - V	
AR501	Industrial Automation (PLC,HMI & SCADA)
AR502	Robotics
AR503	Computer Aided Design & Manufacturing
AR504	Automation in Manufacturing
AR505	Industrial Management & Entrepreneurship Development
AR506	Industrial Automation (PLC,HMI & SCADA) Lab
AR507	Robotics Lab
AR508	Computer Aided Design & Manufacturing Lab
AR509	Data Communication & Computer Networks Lab
AR510	Minor Project
SEMESTER - VI	
AR601	Advanced Microcontroller
AR602	Internet of Things (IoT)
AR603	Additive Manufacturing
AR604	Mechatronics System
AR605	Artificial Intelligence & Machine Learning
AR606	Advanced Microcontroller Lab
AR607	Internet of Things (IoT) Lab
AR608	Additive Manufacturing Lab
AR609	Employability Skills Lab
AR610	Major Project

DPE – 3 YEARS (6 SEMESTERS)

Subject Code	Name of the Subject
SEMESTER - I	
PE101	Technical Communication Skills- I
PE102	Engineering Mathematics - I
PE103	Applied Science - I
PE104	Workshop Technology - I
PE105	Basic Electrical and Electronics Engineering
PE106	Technical Communication Skills Lab - I
PE107	Applied Science Lab - I
PE108	Workshop Technology Lab - I (Bench,Turning)
PE109	Electrical and Electronics Engineering Lab
PE110	Engineering Drawing - I (Practice)
SEMESTER - II	
PE201	Technical Communication Skills - II
PE202	Engineering Mathematics - II
PE203	Applied Science - II
PE204	Workshop Technology - II
PE205	Engineering Mechanics
PE206	Technical Communication Skills Lab - II
PE207	Applied Science Lab - II
PE208	Workshop Technology Lab - II (Milling, Grinding)
PE209	Engineering Drawing - II (Practice)
PE210	Life Skills Lab (Communication, Yoga & Sociology)
SEMESTER - III	
PE301	Strength of Materials
PE302	Computer Fundamentals & Hardware
PE303	Engineering Materials
PE304	Production Technology - I
PE305	Computer Aided Design & Drafting (AutoCAD)
PE306	Computer Fundamentals & Hardware Lab
PE307	Computer Aided Design & Drafting Lab (AutoCAD 2D & 3D)
PE308	Machine Drawing Practice
PE309	Advanced Machine Tool Technology Lab (Jig Boring, EDM & Wirecut)
PE310	Measurements and Instrumentation Laboratory

SEMESTER - IV	
PE401	Engineering Thermodynamics
PE402	Design of Machine Elements - I
PE403	Production Technology - II
PE404	Analysis and Synthesis of Linkages & Machines
PE405	Systems Programming and Languages
PE406	Production Drawing (Practice)
PE407	Systems Programming and Languages Lab
PE408	CNC Programming & Machining Lab
PE409	Metrology Lab
PE410	Metal Casting and Welding Technology Laboratory
SEMESTER - V	
PE501	Hydraulics, Pneumatics and Refrigeration & Air Conditioning
PE502	Design of Machine Elements - II
PE503	Industrial Automation (PLC, HMI & SCADA)
PE504	Robotics
PE505	Industrial Management & Entrepreneurship Development
PE506	Hydraulics & Pneumatics Lab
PE507	Industrial Automation (PLC, HMI & SCADA) Lab
PE508	Robotics Lab
PE509	Refrigeration & Air Conditioning Lab
PE510	Minor Project
SEMESTER - VI	
PE601	Metal Forming & Press Tools
PE602	Machine Tool Engineering
PE603	Operations and Supply Chain Management
PE604	Production Planning & Control
PE605	Computer Integrated Manufacturing
PE606	Metal Forming & Press Tools Lab
PE607	Quality Testing of Machine Tools & Equipments Lab
PE608	Computer Integrated Manufacturing Lab
PE609	Employability Skills Lab
PE610	Major Project
