

PROSPECTUS

- ◆ Product Design & Analysis
- ◆ Building Design
- ◆ Building Information Modelling (BIM)
- ◆ Architectural Design
- ◆ Structural Design
- ◆ Information Technology
- ◆ Project Management

World class training, world over.

www.caddcentre.com

CADD Centre - Where training meets placements

Skilling paves the way for anyone to scale new heights in their career - at CADD Centre, a global network of skill development centres, we believe in it. We equip students with skills that are in demand today, and will matter tomorrow so that they become employable and productive from day one, and set sail towards a promising future.

A pioneer, with a track record of 36 years, we are at the forefront of offering a wide spectrum of technology, creative, and management courses for students to meet the requirements of industries - old, new, and just emerging. Our courses on CAD/CAE, Project Management, Industrial Design, IT, and Business Skills are well known for their coverage and relevance.

As a growing network, we are already present in 600+ locations in India and over 30 countries. In the last three decades, we have trained over 2.5 million students who are gainfully employed - with many occupying senior positions in various organisations spread over more than 40 countries.

2.5M +
Engineers and
Professionals Trained

600
Training Centres -
Asia's Biggest Network

30
Worldwide
Presence

100 +
Industry-Ready
Courses

The world's largest network of CAD and Project Management training centres, and a preferred training provider for corporate, CADD Centre has also emerged as a force to reckon with in creating a growing talent pool for new age industries such as Electric Vehicles, Artificial Intelligence, Internet of Things, and Machine Learning.

Teaching Methodology

CADD Centre adopts 'experiential' pedagogical approach. Based on the right blend of online/offline lectures, hands-on training, study materials, and quizzes, this teaching methodology is designed to inspire intellect and kindle the joy of learning. Irrespective of the courses, all students will be required to do projects. Assessments on learning outcomes are carried out before certifications.

Assessment and Certification

CADD Centre uses a unique assessment methodology. It uses real world projects for students to determine their job readiness. All our major courses are comprehensive in coverage - and each student is required to demonstrate the knowledge and skills they gained by completing a set of projects throughout their training. Course completion certificates are awarded, only after their projects are evaluated and validated by our instructors. Aspects such as these ensures that CADD Centre certification is recognised and accepted as a validation of technical competency of students worldwide.

Our Program Structure

Executive Diploma Certification

Duration: 400 - 440 Hours

Tailored for both working professionals and students, this program features a specialized, industry-relevant curriculum. It focuses on enhancing skill sets with real-world applications, ensuring participants can make an immediate impact in their professional roles.

Expert Certification

Duration: 240 Hours

This advanced certification offers specialized expertise through hands-on learning and industry best practices, ideal for professionals looking to deepen their knowledge in specific domains.

Masters Certification

Duration: 160 - 240 Hours

A comprehensive program designed to equip individuals with versatile skills across various design and engineering disciplines, fostering well-rounded professional growth.

Proficient Certification

Duration: 80 Hours

This intensive program provides in-depth training in a software of the student's choice, ensuring proficiency in the selected tool and significantly boosting career opportunities.

In Focus

Product Design & Analysis

AutoCAD

From the basics of CAD, to all design tasks involved in the step-by-step production of mechanical drawings using AutoCAD.

Key Topics:

- AutoCAD interface
- Draw, edit and duplicate entities
- Managing layers and object properties
- Productivity tools
- Layout management
- Plot settings
- Create and manage dimensions
- 3D modelling

SolidWorks

Planning, visual ideation, modelling, and prototyping with mechanical, electrical, and software elements using SolidWorks.

Key Topics:

- Sketch creation tools
- Sketch editing tools
- Part modelling features
- Part editing features
- Assembly modelling
- Surface modelling
- Sheet metal design
- Weldment design
- Drawing views & annotations
- Model visualisation

CATIA

Creating solids, surfaces, assemblies, drawings, fabrication & analysis with CATIA's powerful parametric modelling and photorealistic rendering tools.

Key Topics:

- Sketch creation tools
- Sketch editing tools
- Part modelling features
- Advanced part modelling features
- Assembly modelling
- Sheet metal design
- Generative shape design
- Drawing views
- Dimensions & annotations
- Drafting settings & rendering

Ansys

Mastering Ansys tools for design and finite element analysis for structural analysis with models of advanced materials, complex environmental loadings.

Key Topics:

- Creating 3D models
- Creating FEA models
- Finite element model
- Loads & boundary condition
- Creating Materials
- Static structural analysis
- Modal & buckling analysis
- Fatigue & thermal analysis
- Report generation

Creo

Creating a complete 3D digital model of products, managing 2D and 3D solid model data for FEA, rapid prototyping, tool design, and CNC manufacturing.

Key Topics:

- Sketch tools
- Part modelling features
- Part editing features
- Datum features
- Assembly modelling
- Advanced assembly
- Surface modelling
- Sheet metal design
- Drawing views
- Dimensions & annotations

NX CAD

NX CAD features an easy-to-use interface and flexible, powerful tools to create high-performance modeling, drafting, and assembly design

Key Topics:

- Sketch creation & editing tools
- Part modelling features
- Part editing features
- Synchronous modelling
- Assembly modelling
- Sheet metal design
- Drawing views
- Dimensions & annotations
- Rendering

Electrical CAD

Using AutoCAD Electrical for electrical and electronic diagrams, schematics, and control circuit diagrams as well as layouts.

Key Topics:

- Basics of AutoCAD
- Drawing tools and object properties
- Application of AutoCAD Electrical
- Introduction to Project Managers
- Symbol & circuit builder
- Panel components
- BOM creation

Revit MEP

Revit MEP is used to design HVAC, Electrical, Plumbing & Firefighting systems for industrial / residential buildings. It also helps in preparing schedules for the design.

Key Topics:

- HVAC design & documentation
- Lighting design & panel schedule
- Conduits & Cable tray design
- Plumbing design and documentation
- Fire protection
- Family creation
- Work sharing
- Sheets and revisions

Architecture, Engineering & Construction Design**AutoCAD (Civil / Architecture)**

From the basics of 2D and 3D AutoCAD to its latest in parametric drawing for designing with geometrical or dimensional constraints.

Key Topics:

- Drafting entities
- Layer management
- Views & annotations
- Parametric drawings
- Blocks & attributes
- X-ref and OLE
- Layout and plot
- AutoCAD 3D techniques

STAAD.Pro

STAAD.Pro for all types of structural including buildings, transportation structures, industrial structures, and hydraulic structures.

Key Topics:

- Modelling of structures
- Assigning properties
- Loads & Load combinations
- Bridge deck design
- Response spectrum & time history analysis
- RC beam, Column design
- Design of steel structures

Revit Architecture

By creating 3D virtual models of buildings, as well as collecting and managing building data in addition to developing schedules.

Key Topics:

- Creating levels and grids
- Walls modelling
- Object modification
- Floors and roofs
- Annotation and documentation
- Schedules
- Massing and site
- Family creation
- Energy analysis
- Collaborative design

3Ds MAX for Engineers

All the key tools of 3ds Max are essential for creating visuals in civil engineering and architecture, a special focus on interior and exterior modelling.

Key Topics:

- Shapes & geometries
- Particle systems & space warps
- Modifiers
- Interior modelling
- Exterior modelling
- Mechanical product modelling
- Working with materials
- Lights & Camera
- Advanced rendering
- Animation & walkthrough

Scan the QR Code:
Hear from Our Students

Watch the video and hear from our students, a community of learners, partner and faculty members on how we invested in helping each student fulfill their potential.



ETABS

ETABS for structural analysis for building, especially complex structures, skyscrapers etc.

Key Topics:

- Modelling
- Assigning Properties
- Loads & Load combinations
- Analysis
- Concrete design
- Steel design & steel connection design
- Shear wall design
- Detailing
- Report generation

SketchUp

Basics and advanced uses of SketchUp in design tasks involving architectural visualisation and landscape design.

Key Topics:

- Inference techniques
- Modelling entities
- Push/Pull modification
- Object editing
- Measurement & Annotation
- Match photo modelling
- Components: General & Dynamic
- Modelling from DWG
- Model visualisation
- Model documentation

5D BIM

From the basics of 5D BIM to methods of performing real-time 5D cost estimates, and using 5D simulation to identify potential conflicts and construction risks early.

Key Topics:

- Reviewing the model
- Clash detection
- Simulation – Timeliner
- Animate objects
- Rendering
- Quantification

V-Ray

Techniques to create realistic visualisations and animations by mastering key features of V-Ray, such as light and shadow, and real-world material rendering.

Key Topics:

- V-Ray rendering engines
- V-Ray image sampling techniques
- Global Illumination for exterior & interior scenes
- V-Ray physical camera, lights, materials
- V-Ray aerial perspective
- V-Ray objects
- V-Ray render elements

Project Planning & Management**Primavera**

From the basics of Project Planning & Management (PPM) to using Primavera for PPM, staying on schedule, estimating costs, and managing teams.

Key Topics:**Module 1**

- Project management framework
- Organisation structure
- Project initiation
- Project planning
- Project execution
- Monitoring & Controlling
- Closing process group

Module 2

- Work breakdown structure
- Activities & Relationships
- Scheduling
- Constraints & Codes
- Roles & Resources
- Resource Analysis & Levelling
- Updating project progress
- Tracking project progress
- Issues & Thresholds
- UDF & Reports

Microsoft Project

The course covers the basics of project planning and management and Microsoft Project covering initiation, planning, execution, and closure.

Key Topics:**Module 1**

- Project management framework
- Organisation structure
- Project initiation
- Project planning
- Project execution
- Monitoring & Controlling
- Closing process group

Module 2

- Calendar
- Work breakdown structure
- Activities & Relationships
- Scheduling
- Constraints
- Resources
- Resource analysis & Levelling
- Updating project progress
- Tracking project progress
- UDF & Reports

Information Technology

C Programming

All essential features of this general-purpose programming language, along with concepts that are helpful for learning other programming languages.

Key Topics:

- Data type conversion
- Functions
- Files and streams
- GCC compiler

IoT

Techniques to connect objects with sensors, processing ability, and software, and allowing them to exchange data.

Key Topics:

- Data representation concepts
- Sensors
- Communication protocols
- Cloud computing
- Raspberry Pi
- IoT protocol
- IoT data analytics

C++

Everything it takes to create high-performance applications, operating systems, in-game programmes, and data structures using C++.

Key Topics:

- Basic procedural programming
- File manipulation and multi-file programming
- Errors and exceptions
- Creating libraries
- Object-oriented programming

Data Analytics

Data analytics is the collection, transformation, and organisation of data in order to draw conclusions, make predictions, and drive informed decision making.

Key Topics:

- Data Collection
- Data Preprocessing
- Exploratory Data Analysis
- Python for Data Analysis
- Structured Query Language
- Data Analysis with Excel
- Visualisation with Tableau

Robotics Design

From hardware to software involving open-source electronic prototyping platforms to create robots and interactive electronic objects.

Key Topics:

- Working with Arduino board
- Programming Arduino Hardware
- Introduction to the supply circuit
- Introduction to LED
- Integrating multiple buttons using matrix formation
- DC motor / Stepper motor
- Wireless module

Professional Programs

Python For Professionals

Grasp the essentials of Python and build proficiency in advanced programming techniques. Covering everything from basic functions to multi-threading, Django, and beyond, this comprehensive program equips you with practical coding skills and hands-on experience needed to thrive in real-world professional environment.

Key Topics:

- Introduction to Python programming
- Advanced data structures
- Object-Oriented Programming (OOP)
- Multi-threading and Itertools
- Standard libraries
- Advanced Functions and Modules
- Testing with Pytest
- Django Framework

Java For Professionals

Gain expertise in Java, one of the most essential programming languages. This course offers a robust foundation in Core Java and advanced features, emphasizing hands-on experience and real-world applications. With modules on Object-Oriented Programming, multithreading, and frameworks like Spring Boot, you'll develop skills for web and enterprise systems.

Key Topics:

- Core Java Concepts
- OOPS concept
- Java packages and collection
- Server-client concepts
- Threads and Multithreading

Certification Programs

At CADD Centre, we offer a range of specialised certification programs tailored to meet industry needs. Choose from our Executive Diploma, Expert, and Master Certificate programs in Product Design, Architecture Design, Building Information Modelling (BIM), Interior Design, Building Design and MEP Design.

Our programs provide a comprehensive learning experience, combining practical skills with industry-relevant knowledge to ensure you are job-ready and equipped to excel in your career.



Executive Diploma Program

Our Executive Diploma Program offers industry-relevant, project-focused training for professionals and students, enhancing skills with real-world tools for immediate career impact.



Expert Certification Program

The Expert Certification Program provides advanced, hands-on training, equipping professionals with specialised skills and industry insights to confidently tackle complex challenges.



Master Certification Program

The Master Certification Program offers comprehensive, cross-disciplinary training in design and engineering, ensuring holistic development and making you highly adaptable and employable across sectors.

Executive Diploma Programs

Executive Diploma in Product Design

Master the art of designing and modelling innovative products using industry-leading CAD tools like AutoCAD, SolidWorks, and CATIA. From engineering drawings to prototyping and motion analysis, this program equips you with practical skills for every stage of product development.

Key Topics:

- Basics of engineering drawing
- Material engineering
- Basics of GD&T
- Engineering drawing using AutoCAD
- Production drawing
- 3D modelling using SolidWorks
- 3D modelling using CATIA
- Mechanisms using SolidWorks motion

Executive Diploma in Architectural Design

Master the art of designing architectural spaces using advanced CAD tools. From initial concepts to detailed 3D models and virtual simulations, gain hands-on experience in creating dynamic designs.

Key Topics:

- Basics of architectural design
- Building materials and services
- Estimation and costing
- Visualisation using V-Ray
- BIM modelling using Revit
- 3D modelling using 3Ds Max
- Engineering drawing using AutoCAD

Executive Diploma in BIM

Developed by global experts, this course equips you to manage projects using advanced BIM tools. Learn 3D modelling, collaboration, and Lifecycle management for innovative and efficient construction solutions

Key Topics:

- BIM implementation
- Concepts using ISO 19650
- Design Development
- As-Built model
- LOD 100 - 500
- Conceptual modelling
- BIM coordination
- LOIN
- Schematic Design
- Shop drawings

Executive Diploma in Interior Design

Create stunning interiors using advanced visualisation, 3D modelling, and space planning techniques. Learn to transform concepts into stylish, functional living spaces.

Key Topics:

- Basics of interior design
- Building Materials
- Vaastu
- Engineering drawing using AutoCAD
- Modelling using SketchUp
- 3D modelling using 3Ds max
- Visualisation using V-Ray
- Photoshop

Executive Diploma in Structural Design

Master structural analysis with industry-standard tools. Learn to assess loads and develop safe, efficient designs for concrete, steel, and advanced materials.

Key Topics:

- Structural manual calculations
- Structural detailing
- Estimation and costing
- Structural analysis in ETABS
- Drafting standards
- Analysis and design in STAAD.Pro

Expert Certificate in Architectural Design

Master architectural design with advanced CAD and BIM tools, focusing on innovative 3D modelling and detailed construction drawings.

Key Topics:

- Entity management, layers, views and annotations
- Advanced AutoCAD 3D techniques
- Levels, grids, walls, furniture, floors, roofs, curtain walls and stairs
- Energy analysis
- Shape manipulation, particle systems, realistic materials and lighting
- Rendering, and Animation

Expert Certificate Programs

Expert Certificate in Product Design

Gain expertise in advanced product design with a focus on 3D modelling, CAD tools, prototyping, and motion analysis for innovative product development.

Key Topics:

- AutoCAD interface, layers, and productivity tools
- 3D modelling, dimensions, and plot settings
- Sketch creation, part and assembly modelling
- Surface and sheet metal design functionalities
- Weldment design techniques
- Drawing views, annotations, and visualisation options
- Advanced drafting, rendering, and modelling features

Expert Certificate in BIM

Become proficient in creating, managing, and coordinating 3D models with a focus on integration, collaboration, and data-driven project management to streamline building design and construction.

Key Topics:

- Design and Object-Oriented Modelling
- Analysis and simulation of building performance, energy consumption
- Analysis and simulation of lighting, acoustics, and thermal comfort
- Lifecycle management - from design to construction

Expert Certificate in Building Design

Develop skills in designing functional and aesthetically pleasing buildings with advanced 3D modelling, structural analysis, and material selection tools.

Key Topics:

- Structural Analysis
- Structural Design
- Building Performance
- Visualisation
- Construction Project Management
- Project Planning and Scheduling
- Cost Management

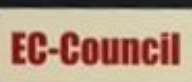
Expert Certificate in Interior Design

Master the art of creating stylish and functional interior spaces with advanced tools for 3D modelling and layout planning. Focus on lighting, furniture, and material choices to balance aesthetics and practicality.

Key Topics:

- 3D visualisation of buildings and interiors
- 3D modelling of furniture and decor
- Detailed material, lighting, and atmospheric effects
- Lighting simulations and textures
- Realistic, immersive virtual environments
- Cost Management

Partnerships and Accreditations



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Master Certificate Programs

Master Certificate in Product Design

Transform ideas into market-ready products with advanced skills in 3D modelling, motion analysis, and CAD tools. From initial concept to final prototype, develop functional and innovative designs across diverse industries.

Key Topics:

- Fundamentals of Engineering Drawing
- Material Selection and Design Concepts
- Geometric Dimensioning and Tolerancing (GD&T)
- 2D and 3D Modelling using AutoCAD
- CAD Software Combinations (available to choose from):
SolidWorks + CATIA | SolidWorks + Creo | CATIA + NX | Creo + CATIA
- Design Validation Techniques
- Product Lifecycle Management (PLM) Fundamentals
- Optimisation for Efficient Production

Master Certificate in BIM

Master comprehensive 3D modelling and project management with BIM. Streamline workflows, enhance collaboration, manage design data, simulate construction processes, and optimise building performance for effective project execution.

Key Topics:

- Introduction to BIM and Industry 4.0 Integration
- Introduction to OmniClass and UniClass
- Concepts using ISO 19650 Standards
- 3D BIM modelling
- Level of Development (LOD)
- Engineering Drawing Fundamentals
- Schematic Design and BIM Coordination

Master Certificate in Architecture Design

Create detailed 3D models and CAD drawings while leveraging BIM for complete project management. Transform concepts into comprehensive architectural solutions, from design through to construction.

Key Topics:

- Conceptual Design and Development
- Drafting Detailed Technical Drawings
- 3D Modelling of Architectural Structures
- Texturing, Materials, and Finishing
- Lighting, Rendering, and Visualisation Techniques
- Design Automation Using CAD Tools (AutoCAD, SketchUp, 3ds Max)

Master Certificate in Building Design

Design complex structures, develop detailed architectural models, and apply advanced techniques for structural analysis and project management. Integrate design concepts with practical construction requirements for comprehensive solutions.

Key Topics:

- Structural Analysis
- Structural Design
- Building Performance
- Visualisation using CAD Tools
- Building Information Modelling (BIM)
- Seismic Design

Master Certificate in Interior Design

Create functional and aesthetically pleasing interiors with detailed 3D models and comprehensive design plans. Focus on space optimisation, material selection, and style integration to craft personalised and practical living spaces.

Key Topics:

- 3D Visualisations of Interior Spaces
- Detailed Representations of Materials, Lighting, and Effects
- Furniture Layouts and Color Schemes
- Realistic Shadows, Reflections, and Refractions
- CAD Tools for Interior Design
- Advanced 3D Rendering Techniques (AutoCAD, 3ds Max, VRay)

Master Certificate in MEP Design

Design and optimise mechanical, electrical, and plumbing systems for buildings. Develop integrated MEP solutions, create detailed schematics, and ensure efficient system performance with advanced tools and techniques.

Key Topics:

- Design and Digital Modelling of HVAC, Electrical, and Plumbing Systems
- MEP System Layout Optimisation
- Sizing and Selection of Equipment and Components
- CAD Tools for MEP Design (AutoCAD, Revit MEP)
- Design Analysis and Documentation
- Detailed MEP Drawings and Specifications for Installation

CADD Centre Job Pakka Fair

CADD Centre, a global leader in skill development, proudly presents the Job Pakka Fair, a premier talent search event aimed at connecting students, freshers, and professionals with a diverse range of job opportunities. With a strong track record of success in cities like Kochi, Chennai, Bangalore, Mumbai, Greater Noida, and Pune, the Job Pakka Fair offers access to over 15,000 job openings across 20+ engineering and non-technical fields. To date, over 50,000 job aspirants have participated, and over 10,000 have secured their dream jobs through the Job Pakka Fair.

With a dedicated focus on facilitating placements, the Job Pakka Fair serves as a vital platform that bridges the gap between skilled candidates and employers, ensuring career growth for participants and helping companies discover top talent.

First Job Pakka!

50K Students Registered	15,000 Job Openings	12 Major Cities	10 Major Streams
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Event Highlights



Placement Assistance - *Your First Job!*

It is not just any job - but the one you aspire for. Leveraging our long-standing association with industries, we line up jobs for you in various domains, and across geographies.

3000 +
Vacancies

25 +
Cities

2000 +
Companies

20 +
Domains



Scan to view
opportunities

Corporate Training

We offer customised training for corporates and educational institutions, and deliver it at their premises, to effectively address their skill development needs in a wide range of domains.

BELOW IS THE PARTIAL LIST OF CORPORATES TRAINED

TASNEE

LARSEN & TOUBRO

INTERNATIONAL
SEAPORT
DREDGING LTD.
Marine & Maritime Education

NAFFCO
FASHION TO PROTECT

ADITYA BIRLA
FASHION & RETAIL

Cardno

MTN

Ramsis
Engineering



INTERNATIONAL MARITIME SERVICES
Marine & Maritime Education

NCC

Research Subgroup of Indian
National Contracting Company

Renewable
Energy Group

ReNew
POWER

Institutions Trained



Voice of Customers

"The trainers kept enough time for reviewing, I would like to put on record my appreciation for well-conducted training programmes for our staff."

A Kalyanasundaram,
Head Engineering Competency Development, L&T, India

"I now have the ability to perform analysis and design of multistorey buildings with ease and confidence. I strongly recommend this training to other practicing engineers, not only in the United States but all over the world."

Henry Anthony
Senior Structural Engineer, Cardno Engineering, Texas, USA

"With the training that I received from CADD Centre, the structural design process can be expedited significantly. Calculations, analysis and designs which used to take several hours and sometimes a couple of days can now be completed in under an hour."

Stephen Black,
Senior Structural Engineer, BOLD Engineering, Canada

"I joined CADD Centre to pursue BIM Course and I must say it was one of the best decisions of my life. It is one of the best institute that offers the best technical training in design software."

Shew Swee Loon
BIM Coordinator, R&C - CERGAS SDN TEGUH SDN BHD, Malaysia

"Every fundamental tool of CATIA was seamlessly explained using real-world scenarios for better understanding. Customised course modules helped me specialise in CATIA workbench efficiently. "

Kavinraj
Design Engineer (Automobile) - Nieke Composites GmbH, Germany

First Job Pakka!

**CADD
CENTRE**

Corporate Headquarters

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