

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 35 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.

A growing network, we are already present in 700+ locations in India and over 30 countries. In the last three decades, we have trained over 2 million students who are gainfully employed - with many occupying senior positions in various organisations spread over more than 40 countries.

2M +
Engineers and
Professionals Trained

700
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 this ensures that CADD Centre certification is recognised and accepted as a validation of technical competency of students worldwide.

Our Program Structure

Proficient Certification

Duration: 80 Hours

Aim at imparting in-depth knowledge and competency in the right CAD software.

Masters Certification

Duration: 160 Hours

Equips students to master multiple and complimenting CAD software suitable for different engineering domains and product development. Masters Certification courses offer a variety of tools for design and analysis with specialisations across all disciplines.

Expert Certification

Duration: 240 Hours

Our Expert Certification courses are composed of various engineering and managerial competencies that are important for developing new products and services. These courses impart all the relevant skills with the help of our qualified tutors.

In Focus

Product Design & Analysis

AutoCAD (Mechanical)

From basics of mechanical 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 and 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 of 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
- 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
- History free models
- Assembly modelling
- Advanced assembly
- Surface modelling
- Sheet metal design
- Drawing views
- Dimensions & annotations

NX CAD

NX's easy-to-use interface, flexible and powerful tools to create high-performance modelling, drafting and assembly design.

Key topics:

- Sketch creation & editing tools
- Part modelling features
- Part editing features
- Synchronous modelling
- Assembly modelling
- Free form 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, object properties
- Application of AutoCAD Electrical
- Introduction to Project Managers
- Symbol & circuit builder
- Panel components
- BOM creations

Revit MEP

Revit MEP is used to design HVAC, Electrical, Plumbing & Firefighting system for industrial / residential buildings. Prepare a schedule for the design. Key topics:

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

Architecture, Engineering & Construction Design

AutoCAD (Civil / Architecture)

From 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

Revit Architecture

On creating 3D virtual models of buildings, as well collecting and managing building data - besides arriving at 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

STAAD.Pro

STAAD.Pro for all types of structural analysis including building, transportation, industrial structures, hydraulic structures etc. Key topics:

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

MAX for Engineers

All the key tools of 3ds Max are essential for creating visuals in civil engineering and architecture - with a special focus on interior and exterior modeling. 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
- Analysis
- Concrete design
- Steel design & steel connection design
- Sheer 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 the ways of doing real-time 5D cost estimate, 5D simulation to identify potential conflicts and construction risks early. Key topics:

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

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
- V-Ray lights
- Global Illumination for exterior scenes
- Global Illumination for Interior scenes
- V-Ray physical camera
- V-Ray materials
- V-Ray aerial perspective
- V-Ray objects
- V-Ray render elements

Project Planning & Management

Primavera

From the basics of Project Planning & Management (PPM), and using Primavera for PPM, staying on schedule, cost estimates, 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 & Leveling
- Updating project progress
- Tracking project progress
- UDF & Reports

Information Technology

C Programming

All essential features of this general-purpose programming language and the concepts helpful to learn 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 to let them 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

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

Ethical Hacking

Skills and knowledge required for detecting vulnerabilities in applications, systems or IT/digital infrastructure and for preventing hackers. Key topics:

- Banner grabbing
- Network diagrams
- Enumeration
- Application-Level session hijacking
- Tools and counter measures
- Mobile device management
- Cloud computing attacks
- Cryptography concepts

Java

Making this object-oriented programming language work for developing mobile apps, web apps, desktop apps, games and much more. Key topics:

- OOPS concept
- Java packages and collection
- Server-client concepts
- Multi-threading

CADD Centre has consistently contributed to young engineers success by helping them acquire employable skills and build their career paths. Our "First Job Pakka" program is built for setting a great career path for the people we train:

Core Competence • Hands-on Learning • Programming Skills For Engineers
Soft Skills • Project Assessment • Job Ready Skilling

All of this, combined with our expertise in CAD, helped many land their dream job in top companies. For more information, please visit caddcentre.com/firstjobpakka

**First
Job
PAKKA**

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.

2000 +
Vacancies

25 +
Cities

1500 +
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 & Waterway Contractor

NAFFCO
PASSION TO PROTECT

ADITYA BIRLA
 FASHION & RETAIL

Cardno

MTN

Ramsis
Engineering



INTERNATIONAL MARITIME INDUSTRIES
POWERED BY GULF ARABIAN (LAMPHELL) BARRI - IRI

NCC

شركة المقاولات الوطنية المحدودة
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, analyses 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 - CER GAS 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!

Corporate Headquarters

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