★ AI-INTEGRATED COURSE

# ADVANCE DIPLOMA IN COMPUTER SCIENCE AND ENGINEERING

**Launch your tech career with advanced skills in programming!**

**Duration:** 6 Month | **Advanced Diploma** · Advanced | **Eligibility:** Candidates should have a Bachelor's degree in Computer Scien

## OVERVIEW OF THE COURSE

The Advance Diploma in Computer Science and Engineering is a comprehensive program designed to equip students with advanced knowledge and skills in the field of computer science. This course covers a wide range of topics including programming, software development, networking, and data management. Duration: 6 months Fees: ₹25,00...

- Hands-on projects for real-world experience
- Expert instructors with industry insights
- Comprehensive coverage of advanced topics
- Focus on modern development methodologies
- Preparation for industry certifications




| 6 Month | 12 | 4 | 12 |
|---|---|---|---|
| DURATION | SUBJECTS | PROJECTS | TOOLS |

JOIN NOW →

WhatsApp us

WE ARE AVAILABLE AT
**600+ LOCATIONS**

NOT SURE WHICH COURSE IS RIGHT FOR YOU?
**Choose the Best Course for You - Try our AI-Powered Career Counselling for FREE**

Start free →

YOUR NEAREST ISDM NxT CENTRE

**Xoder**

A/485, Dayal Residency,Near BBD University,Opposite Crown Mall, Chinhat, Lucknow, Uttar Pradesh - 226028

Call / WhatsApp: **9235595264** · abhijeetps@outlook.com

Scan to enquire

COURSE CURRICULUM

# What you will learn

01 Subjects → | 02 Projects → | 03 Tools → | 04 AI Integration

## 01 Subjects & modules

10 subjects with the topics you will learn

### 01 Software Developer

- C, C++, And Python Fundamentals
- Object-Oriented Programming
- Core Data Structures
- Algorithms And Problem Solving
- Software Engineering, SDLC, And Git
- Console Applications And CRUD Operations
- HTML, CSS, And JavaScript Basics

### 02 Systems Analyst

- System Analysis And Requirement Gathering
- Feasibility Study
- UML, Use Cases, And Flowcharts
- Agile Methodology And Scrum
- System Design And Data Modeling
- Prototyping And Software Architecture
- Design Patterns And Software Testing

### 03 Database Administrator

- Database Concepts, Types, And Architecture
- RDBMS, MySQL, And PostgreSQL
- SQL Queries, Joins, And Functions
- Database Normalization And Normal Forms
- Database Backup, Recovery, And Disaster Planning
- Indexing And Query Optimization
- NoSQL Databases And MongoDB

### 04 Network Engineer

- OSI And TCP/IP Models
- IP Addressing And Subnetting
- Routing And Network Devices
- Linux Commands And Shell Scripting
- Windows Server Administration
- Network Security And Threats
- Network Configuration And Troubleshooting

### 05 AI/Machine Learning Engineer

- AI Foundations, Types, And Applications
- NumPy And Pandas For Data Analysis
- Scikit-Learn Fundamentals
- Supervised And Unsupervised Learning
- Neural Networks And Deep Learning
- AI Ethics And Responsible Principles
- End-To-End Spam Detection Pipeline

### 06 Cybersecurity Analyst

- Cybersecurity Fundamentals And Risk Management
- Cyber Threats And Incident Response
- Cryptography And Key Management
- Firewalls And Network Defense
- Intrusion Detection And Prevention
- Ethical Hacking And Penetration Testing
- Web Application Security

### 07 Cloud Solutions Architect

- Cloud Fundamentals And Governance
- Cloud Service Models
- AWS Azure And GCP Services
- Virtualization And Docker Containers
- Cloud Architecture Design
- Hosting Applications On AWS And Azure
- Load Balancing Autoscaling And Security

### 08 IoT Developer

- IoT Fundamentals And Applications
- IoT Architecture And Communication Protocols
- Arduino And Raspberry Pi Basics
- IoT Sensors And Actuators
- Smart Home And Smart City Concepts
- IoT Cloud Integration And Edge Computing
- Building And Visualizing An MQTT IoT System

## 09 Graphics Programmer`

- Computer Graphics Fundamentals
- Graphics Libraries And APIs
- Rendering Pipelines
- Animation Techniques
- Graphics Shaders
- Game Development And Engines
- 2D And 3D Game Design

## 10 Project Manager

- Project Management Fundamentals
- Project Lifecycle And Planning
- Agile Methods And Project Tools
- Risk Management And Quality Assurance
- Capstone And Team Application Development
- Project Submission And Evaluation
- Presentation, Demonstration And Viva Assessment

## 02 Projects & assignments

Hands-on work for your portfolio

**P1** Build a fully-functional web application using a chosen programming language.

**P2** Design and implement a database for a real-world application.

**P3** Create a networking project that demonstrates security measures.

**P4** Develop a software solution to solve a specific business problem.

## 03 Tools & software you will master

4 industry tools

- Python
- MySQL
- AWS
- TensorFlow

## 04 AI Integration

How AI is used inside the work of this course

AI SUBJECT

### AI Fundamentals & Prompt Engineering

- **AI Basics and Everyday Uses**
- **Generative AI: How It Works**
- **Prompt Engineering Foundations**
- **AI for Study and Workplace Tasks**
- **Fact-Checking and Reliable Research**
- **Privacy, Safety and Responsible Use**
- **Integrated Practice and Review**

AI SUBJECT

### AI for Office Productivity (Word, Excel, PowerPoint)

- **Safe AI use and prompt basics for office work**
  Microsoft 365 Copilot and Gemini for Google Workspace in Microsoft 365 and Google Workspac
- **AI-assisted documents and email in Microsoft 365**
  Microsoft 365 Copilot in Word: Create, rewrite and summarise a workplace letter or report,
- **AI formulas, data cleaning and analysis in Excel**
  Microsoft 365 Copilot in Excel: Generate or explain formulas, analyse a table and create a
- **AI presentations in PowerPoint and Google Slides**
  Microsoft 365 Copilot in PowerPoint: Create or revise a presentation from a prompt or supp
- **Gemini in Google Workspace: documents, spreadsheets and email**
  Gemini for Google Workspace in Google Docs: Draft, rewrite or summarise a document and ver
- **AI-assisted calendar, meetings and task management**
  Microsoft 365 Copilot in Microsoft Teams, Microsoft To Do and Planner: Review an available
- **AI connectors and office-work automation**
  ChatGPT connectors in Gmail, Google Calendar and Google Drive where supported: Connect an

AI TOOLS YOU WILL USE

- Google Gemini
- Microsoft Copilot
- ChatGPT
- Claude
- Power Automate
- Zapier
- Perplexity


NotebookLM

CAREER OPPORTUNITIES

# Where this course can take you

**Software Developer**
Fresher salary: ₹3.0-5.0 LPA*

**Database Administrator**
Fresher salary: ₹3.2-4.8 LPA*

**Network Engineer**
Fresher salary: ₹2.8-4.5 LPA*

**Systems Analyst**
Fresher salary: ₹3.5-5.5 LPA*

**IT Project Manager**
Fresher salary: ₹4.0-6.0 LPA*

### Freelancing & own business

- Developing websites and applications
- Offering database management services
- Providing IT consultancy
- Creating custom software solutions

### Industries that hire

- Information Technology
- Finance and Banking
- Healthcare
- E-commerce
- Telecommunications

### Grow further

- Master's in Computer Science
- Specialized certifications in AI or Cloud Computing
- Advanced courses in Cybersecurity
- Training in Data Science

## Certification

Upon successful completion, you will receive an ISDM NxT certificate that showcases your skills and knowledge.

Practical AI-integrated project | Final online test | Verifiable certificate

JOB SUPPORT

# How we help you get a job

**1** Personalized resume crafting assistance

**2** Mock interviews to boost confidence

**3** Access to job offers tailored for you

**4** Guidance on job applications

* Typical fresher salary ranges in India; the actual salary depends on the employer, the city and your skills.

WHY START NOW

# Your future is built by the skills you learn today.

Companies hire people who can do the work. People who use AI well at work are in demand - this course teaches you the job skills and the AI tools together. Every month you practise adds a project to your portfolio - the best time to start is now.

| 18+ | 600+ | 2,708+ | 390+ |
|---|---|---|---|
| Years of training experience | Centres across India | Job offers to our students | Hiring companies |

## UNIQUE FEATURES AT ISDM NxT

- ✓ Free pre-counselling to choose the right course
- ✓ Study material, attendance, assignments, exams and results online from day one
- ✓ 24x7 AI trainer (ChatNxT) for your doubts
- ✓ Experienced, rated trainers and daily class feedback
- ✓ Practical lab sessions and live projects
- ✓ Monthly online mentorship sessions
- ✓ Resume, mock interviews and job offers in your student dashboard
- ✓ Freelancing and start-up guidance

● LIVE PLACEMENT DATA

## Latest job offers to ISDM NxT students

Updated 20 Nov 2026



**Gaurav M.**
India
**Java Software Development Engineer**
Health Catalyst



**Geeta K.**
New Delhi
**tellecaller for digital marketing**
balajimarketingexperts



**Anand S.**
Muvattupuzha
**Hiring Junior Account Executive J...**
CorpZop



**Adarsh S.**
Ghugus
**TGT Computer Science**
Adani Foundation



**Priyanka Y.**
Mumbai
**Data Entry Operator (Full-time) -...**
CorpZop



**Rajan S.**
Ahilyanagar
**Computer Trainer**
Enlearning skill development Ltd

Job offers shared with our students through the ISDM NxT job network. See all at isdmnext.in/latest-placement

LIMITED SEATS · VALID TILL 30 NOV 2026

## FREE Ambassador Affiliate Programme

Complete your admission within **10 days** and join the ISDM NxT Ambassador Affiliate Programme free of cost: refer friends, earn referral rewards as per the programme and get featured on the ambassador leaderboard.

CLAIM NOW

TAKE THE FIRST STEP

# Book your FREE counselling session today

Meet our counsellor, see the lab, get your doubts answered and know the current fees and offers for your centre.

YOUR ISDM NxT CENTRE

## Xoder

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**Call: 9235595264**

WhatsApp: 9597334980

Email: abhijeetps@outlook.com

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Scan for course details & enquiry

NOT SURE WHICH COURSE IS RIGHT FOR YOU?

### Choose the Best Course for You

Try our AI-Powered Career Counselling for FREE - answer a few questions and get the courses that fit your interests, skills and career goal.

**Try it FREE →**
isdmnext.in/course-for-you

**01**
**Counselling**
Free guidance to pick the right course

**02**
**Training**
Practical classes, labs and projects

**03**
**Mentoring**
Experts, AI trainer and feedback

**04**
**Placement support**
Resume, interviews and job offers

### What you get with this course

- Comprehensive study material
- Practical lab sessions
- Live projects for hands-on experience
- 24x7 AI trainer support
- AI career counselling sessions
- Interview preparation resources
- Job offers in your student dashboard
- Certificate upon assessment completion

ISDM NxT Head Office: 309, Saffron Plaza, Airport Road, Vadodara, Gujarat, 390022 · +916263625594 · inquiry@gmail.com

Fees depend on the centre and current offers - ask your counsellor. Course content may be updated to stay current with industry needs. · isdmnext.in