



Unleash the Power of
Claude AI



Course Curriculum

CLAUDE AI FOR IT PROFESSIONALS



500K+

Satisfied Students



100K+

Online Students



300+

Trainers



300K+

Placements



200+

Global Certifications



150+

Companies

| Program INDEX

- Module 1: Generative AI & Claude Foundation
- Module 2: Claude AI Fundamentals
- Module 3: Advanced Prompt Engineering
- Module 4: Claude for Research & Knowledge Work
- Module 5: Claude for Professional & Technical Productivity
- Module 6: Claude for Coding, Software Development & Claude Code
- Module 7: Claude for Data, SQL & Technical Analysis
- Module 8: Claude Projects & Knowledge Management
- Module 9: Claude API & AI Application Development
- Module 10: MCP & Claude Tool Integration
- Module 11: AI Agents & IT Workflow Automation
- Module 12: Claude for IT Industry Applications
- Module 13: Responsible AI, Security & Enterprise Governance
- Module 14: End-to-End IT Capstone Projects

Module 1: Generative AI & Claude Foundation

- ✓ What Is Artificial Intelligence?
- ✓ AI Vs ML Vs Deep Learning Vs Generative AI
- ✓ Large Language Models (LLMs)
- ✓ How Modern AI Models Work
- ✓ Introduction To Anthropic
- ✓ Claude Ecosystem And Model Families
- ✓ Claude Vs ChatGPT Vs Gemini
- ✓ Strengths And Limitations Of Claude
- ✓ Tokens And Context Windows
- ✓ Multimodal AI
- ✓ Real-World IT Applications Of Claude
- ✓ Practical: First 20 Claude Prompts

Module 2: Claude AI Fundamentals

- ✓ Claude Interface And Workspace
- ✓ Conversations And Chat Management
- ✓ Effective Instructions And Context
- ✓ Asking Claude The Right Questions
- ✓ Working With PDFs, Word And Technical Documents
- ✓ Summarization, Extraction And Classification
- ✓ Rewriting And Transformation
- ✓ Creating Structured Outputs
- ✓ Everyday IT Productivity Workflows
- ✓ Hands-On: Technical Document Analysis Project

Module 3: Advanced Prompt Engineering

- ✓ Prompt Fundamentals And Anatomy Of An Effective Prompt
- ✓ Role, Context, Instruction And Constraint Prompting
- ✓ Output Formatting And Structured Responses
- ✓ Zero-Shot And Few-Shot Prompting
- ✓ Step-By-Step Reasoning Concepts
- ✓ Prompt Decomposition And Chaining
- ✓ Self-Critique And Iterative Prompting
- ✓ Structured Prompting
- ✓ XML-Based Prompting
- ✓ System Instructions And Context Management
- ✓ Claude-Specific Prompting Principles
- ✓ Long-Context Prompting
- ✓ Reusable Prompt Templates
- ✓ Prompting For Debugging And Troubleshooting
- ✓ Prompting For Requirements And Architecture
- ✓ Prompting For Testing And Code Review
- ✓ Prompting For Logs, SQL And Technical Documentation
- ✓ Project: 50+ Prompt Professional Library

Module 4: Claude for Research & Knowledge Work

- ✓ Research Planning
- ✓ Information Extraction
- ✓ Comparing Multiple Documents
- ✓ Technical And Competitive Research

- ✓ Literature And Documentation Review
- ✓ Creating Research Reports
- ✓ Fact-Checking Workflows
- ✓ Executive And Technical Summaries
- ✓ Turning Unstructured Information Into Structured Knowledge
- ✓ Project: AI-Powered Technical Research Report

Module 5: Claude for Professional & Technical Productivity

- ✓ Technical Documentation
- ✓ Requirement Document Analysis
- ✓ BRD/FRD And Specification Summarization
- ✓ User Stories And Acceptance Criteria
- ✓ SOP And Process Documentation
- ✓ Meeting Summaries And Technical Action Items
- ✓ Incident And Problem Reports
- ✓ Release Notes And Change Requests
- ✓ Technical Emails And Stakeholder Communication
- ✓ Knowledge-Base Content Creation
- ✓ Documentation Transformation And Repurposing
- ✓ Project: Complete AI-Assisted Technical Documentation System

Module 6: Claude for Coding, Software Development & Claude Code

- ✓ Code Generation, Explanation, Debugging, Refactoring And Optimization
- ✓ Requirements-To-User-Story-To-Code Workflows

- ✓ Technical Design And Architecture Assistance
- ✓ HTML/CSS, JavaScript, Python, Java, C/C++ And SQL Assistance
- ✓ REST APIs And JSON
- ✓ Database Design And SQL Development
- ✓ Unit-Test And Integration-Test Generation
- ✓ Test-Driven Development With AI
- ✓ Code Review And Security Review
- ✓ Legacy Code Understanding
- ✓ Git/GitHub Workflows
- ✓ Claude Code Fundamentals
- ✓ Working With Repositories
- ✓ Repository Analysis And Codebase Understanding
- ✓ Implementing Features
- ✓ Debugging And Fixing Issues
- ✓ Testing And Code Review With Claude Code
- ✓ Documentation And README Generation
- ✓ Pull-Request Assistance
- ✓ Project: Claude-Assisted Production-Style Web/API Application

Module 7: Claude for Data, SQL & Technical Analysis

- ✓ Working With CSV, Excel, JSON And Technical Datasets
- ✓ Data Cleaning
- ✓ Data Exploration
- ✓ Statistical Analysis
- ✓ Finding Patterns And Generating Insights

- ✓ Creating Charts And Data Stories
- ✓ SQL Assistance And Query Generation
- ✓ SQL Query Optimization
- ✓ Python-Assisted Analysis
- ✓ API Response Analysis
- ✓ Log-File Analysis
- ✓ Error-Pattern Identification
- ✓ System And Operational Data Analysis
- ✓ Business Intelligence Workflows
- ✓ Management And Technical Reports
- ✓ Project: Real-World Technical Dataset And Log Analysis

Module 8: Claude Projects & Knowledge Management

- ✓ Understanding Claude Projects
- ✓ Project-Specific Instructions
- ✓ Adding Knowledge And Reference Documents
- ✓ Building Specialized AI Workspaces
- ✓ Managing Large Knowledge Bases
- ✓ Creating Reusable Workflows
- ✓ Department-Specific AI Assistants
- ✓ IT Helpdesk Knowledge Assistant
- ✓ Developer Knowledge Assistant
- ✓ Technical Documentation Assistant
- ✓ Security-Policy And Process Assistant
- ✓ Project: Specialized IT Knowledge Assistant

Module 9: Claude API & AI Application Development

- ✓ What Is An API?
- ✓ Claude API Overview
- ✓ Authentication And Environment Variables
- ✓ API Key And Secret Management
- ✓ Requests And Responses
- ✓ Model Selection
- ✓ Parameters, Tokens And Usage
- ✓ Rate Limits And Retries
- ✓ Error Handling And Logging
- ✓ Python + Claude API
- ✓ JavaScript + Claude API
- ✓ Programmatic Prompting
- ✓ Structured Responses And Structured Outputs
- ✓ Streaming Responses
- ✓ Tool Use And Function Calling
- ✓ Context Management
- ✓ Conversation Memory
- ✓ LLM Application Architecture
- ✓ Basic RAG Concepts
- ✓ Evaluation And Testing Of AI Applications
- ✓ API Cost Optimization
- ✓ Project: Python-Based Claude AI Application

Module 10: MCP & Claude Tool Integration

- ✓ What Is Model Context Protocol (MCP)?
- ✓ Why MCP Was Created
- ✓ MCP Architecture
- ✓ MCP Servers And Clients
- ✓ MCP Tools And Resources
- ✓ Connecting Claude To External Systems
- ✓ Files, Databases, APIs, GitHub And Business Applications
- ✓ Building A Basic MCP Server
- ✓ Exposing Tools
- ✓ Connecting External Data
- ✓ Tool Permissions And Access Control
- ✓ MCP Security Considerations
- ✓ Testing MCP Integrations
- ✓ Project: MCP-Powered IT Assistant Connected To External Tools

Module 11: AI Agents & IT Workflow Automation

- ✓ What Is An AI Agent?
- ✓ Chatbot Vs AI Agent
- ✓ Agent Architecture
- ✓ Tools And Actions
- ✓ Planning And Execution
- ✓ Multi-Step Workflows
- ✓ Agent State And Memory
- ✓ Human-In-The-Loop Systems
- ✓ Tool Calling

- ✓ Failure Handling And Guardrails
- ✓ Agent Evaluation
- ✓ IT Helpdesk Agent
- ✓ Log Analysis Agent
- ✓ Code Review Agent
- ✓ Documentation Agent
- ✓ DevOps Assistant
- ✓ Incident Analysis Agent
- ✓ Testing Agent
- ✓ Project: AI-Powered IT Workflow Automation

Module 12: Claude for IT Industry Applications

- ✓ Software Development: Coding, Debugging, Testing And Documentation
- ✓ IT Support: Ticket Analysis, Troubleshooting And Knowledge-Base Assistance
- ✓ DevOps: Logs, Configuration, Deployment Documentation And Incident Analysis
- ✓ Cybersecurity: Alert Investigation, Security Documentation And Policy Analysis
- ✓ Business Analysis: Requirements, User Stories And Process Analysis
- ✓ Project Management: Meeting Analysis, Risks, Status Reporting And Documentation

Module 13: Responsible AI, Security & Enterprise Governance

- ✓ AI Ethics
- ✓ Privacy And Confidential Information

- ✓ Source-Code And Sensitive-Data Protection
- ✓ Data Security And Leakage Prevention
- ✓ Hallucinations And Human Validation
- ✓ Bias And Responsible Use
- ✓ Copyright Considerations
- ✓ Prompt Injection Attacks
- ✓ Tool And MCP Security
- ✓ API Key And Secrets Management
- ✓ Access Control And Permissions
- ✓ AI-Generated Code Security
- ✓ Secure AI Workflows
- ✓ Enterprise AI Governance
- ✓ Human Approval And Escalation Workflows

Module 14: End-to-End IT Capstone Projects

- ✓ Capstone 1 — End-To-End AI IT Assistant
- ✓ Technical Document Q&A And Knowledge Retrieval
- ✓ Log Analysis And Troubleshooting Assistance
- ✓ Technical Report And Incident-Report Generation
- ✓ External Tool Integration Through API/MCP
- ✓ Agent Workflow With Human Approval
- ✓ Security And Validation Controls
- ✓ Capstone 2 — Claude Coding & Repository Assistant
- ✓ Requirements, Code Generation, Debugging, Testing, Code Review And Documentation

✔ Optional Projects: DevOps Assistant, IT Helpdesk Assistant, Technical Document Analyzer, Data/Log Analysis Assistant, Custom MCP-Based IT Assistant

e-Learning through LMS

Learning **Management System**

Our LMS (LearnPitch) is for the administration, documentation, tracking, reporting, automation, and delivery of educational courses, training programs, or learning and development programs.

Our LMS has been designed to identify training and learning gaps, using analytical data and reporting to keep you up with the class activities.

Key Features **Learning Management System**



Live Sessions with Class recordings



Get study material with Assignments.



Track your curriculum covered.



Track your class wise attendance



Share your feedback for Trainer & Training



Get your Training Certificate from LMS



| Training Certification

Earn Your **Certificate**

Your certificate and skills are vital to the extent of jump-starting your career and giving you a chance to compete in a global space.



|Croma Campus is Nasscom Certified

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|Croma Campus! Reviews



"The most rewarding part of my experience has been achieving a prestigious certification in the subject that I love. Moreover, the training offered out by the specialists are of world-class and prepares out the students for corporate world. For me Croma Campus means a lot."

*"By The
Students
For The
Students,"*

Your Success is **Our Story**



Bharat

"I am fully satisfied with the excellent training services received by the expert staff at Croma Campus. I want to thank Croma Campus for providing me with the most innovative and affordable training services for learning all the software testing procedures and guidelines."



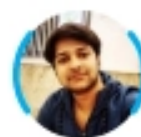
Ankit

"It was a lifetime experience for me to get trained by IT Experts of Croma Campus. What I liked most about the training was the consistent high-quality education, which was friendly and co-active. The placement department was also proactive, they keep me updated regarding new job opportunities and provide the grooming session to crack the interview. At last, I would like to thank all faculty members of Croma Campus for their immense help and support."



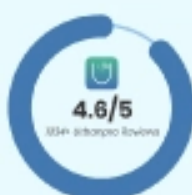
Umesh

"Without any second thought, I will give Croma Campus 10/10. Their placement department is highly proactive. I remember they started scheduling interviews for me from the very next day when I told them my course has been completed. These people are doing a phenomenal job and I highly recommend Croma Campus to everyone."



Shams Khan

"Croma Campus is doing a phenomenal job in the IT training industry. The reason why I decided to join their training program was that they provide quality training at very a nominal price. Plus, the online training mode was also a factor due to which I decided to join the training program of Croma Campus as I didn't want to attend physical classes."



|Meet Our Team



Sales Team

Our Sales team is highly passionate, emphatic, positive attitude, great listening skills, ability to deliver quick solutions, and they are multitasker too. Our team always remains up-to-date about all the latest technologies and market trends. With effective communication skills, they always work to deliver the right information to customers when it is needed.

Product Team

Our product team is highly functional and collaborative working together to achieve the common outcome of designing exceptional digital experiences. Each of our members is a contributor to help us achieve success in long-run. Sitting at the high-end of technology and innovation, team helps to deliver high-end customer experiences and always comes out with a big idea as a game-changing plan.

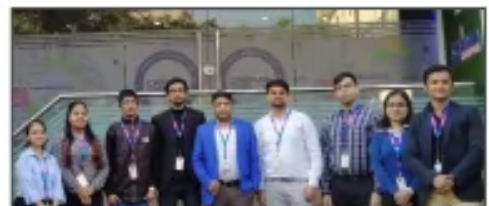


Marketing Team

Our Marketing team works as gladiators and helps us to achieve business success in all possible ways. They are included in almost everything either it is building a brand, creating brand awareness, promoting products or services, delivering trailblazing customer experiences or increasing engagement at public forums. They are the true backbone of the Company.

Content Team

Our content team is responsible for ideation, creation, optimization, and distribution of content throughout the company. The team always starts its work with a strategy, how to create high-quality contents, and how to promote or share the content. Our in-house content team help us to produce all types of contents either they are educational content pieces, marketing content, SEO content, or any other forms too.



Customer Access Team

This is the team that has actually been taken up us from reactive state to a pro-active state. The team utilizes high-valued solutions to satisfy customers in all possible ways. It is truly said that no company can succeed if your customers are not satisfied. And our customer success team is dedicatedly working to keep all the customers satisfied and we always consider our customer feedback on priority.

HR Team

Our HR team is committed to provide high-end solutions to employees as they require. Our HR team has the right skills and knowledge to make sure that the HR department can always be legally and strategically successful. They know how to keep employees motivated all the time with the best HR policies and fun activities too from time to time.

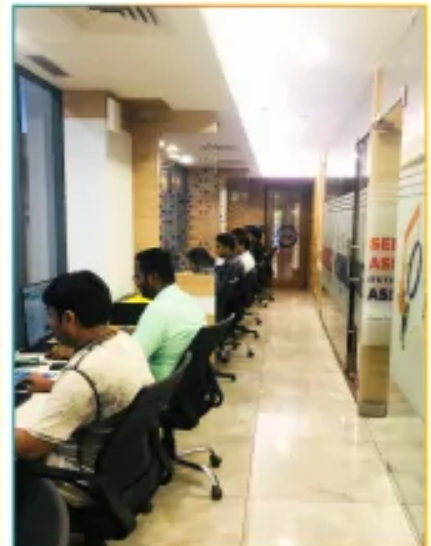


| Glimpse Of Our Office

Look **Who We are**

Our office's infrastructure comprises all the necessary software and network resources that are required to deliver IT & Design, Human Resources, Digital Marketing, and training services.

We are well-equipped with bright designed work bays for employees and managers having separate cabins with spacious cafeteria and training classrooms.



About Croma Campus

“Our Mission is to Build Nation through Education & Beyond Limitation.”



#1 Asia's Leading
Edtech Company

Croma Campus Training & Development Private Limited is an education platform providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty, industry & Infrastructure. In the past 15 years we have trained 18000+ candidates and out of which we are able to place 12000+ professionals in various industries successfully.

We Are
Affiliated
With Different
Partners



We're Here to Help –
Reach Out to Our Global Offices

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