



GIANJYOTI
Institute of Management
and Technology

Approved by AICTE and Affiliated to IKG Punjab Technical University



NAAC
ACCREDITED

25+
Years
of excellence in
education

WHERE CODING
MEETS INTELLIGENCE
BECOME AN
AI-POWERED
IT PROFESSIONAL

BCA WITH **Ai** INTEGRATION

GRADUATE WITH IT READINESS, AI FLUENCY & A PORTFOLIO OF INNOVATION



IOA Institute of
Analytics
The Global Body for Analytics



Microsoft



ISACA



WHY THIS PROGRAM?

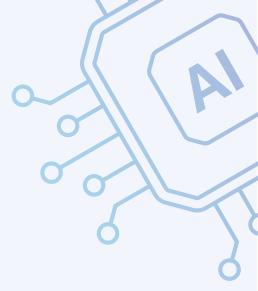
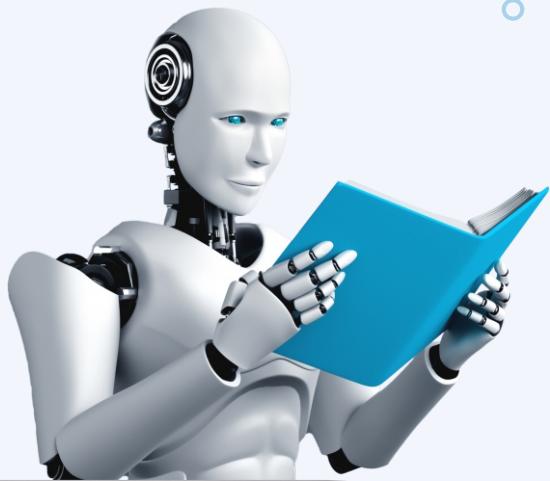


"The tech innovators of tomorrow won't just understand AI. They'll design with it, develop with it, and lead the digital world through it."

AI is transforming every IT domain - software development, data science, cloud computing, cybersecurity, automation.

The IT industry now demands AI-native developers who can build intelligent systems and solve real-world tech challenges using AI.

Outcome: Graduates with future-ready IT skills, AI fluency, and hands-on experience across multiple real-world use cases.



STIPEND BASED
SUMMER INTERNSHIPS



US SUMMER WORK &
TRAVEL OPPORTUNITIES



GJIMT
MENTORSHIP PROGRAM



GJIMT EMPLOYMENT
READINESS PROGRAM



EARN & LEARN
PROGRAMS

BCA WITH **Ai**
INTEGRATION

THE AI-EMPOWERED LEARNING FRAMEWORK

LEGACY BCA MODEL

- Textbook-based learning
- Basic programming exercises
- Basic lab exposure
- One minor project in final semesters
- Focus on theory more than application

Future-Ready AI BCA MODEL

- Real-world IT problem solving
AI and software projects
- Continuous exposure
to modern tech tools
- Strong foundation
in AI + IT systems
- Hands-on learning with
intelligent applications

Each Semester Includes:

AN AI-POWERED COURSE WITH AI LAB, TOOLS & PRACTICAL ASSIGNMENTS

INTEGRATION WITH REAL IT & INDUSTRY USE CASES

FACULTY-LED GUIDANCE ON EVERY REAL-TIME PROJECT

EXPOSURE TO TOP AI TOOLS SUCH AS:
CHATGPT, GITHUB COPILOT, GOOGLE COLAB,
KAGGLE, TENSORFLOW, POWER BI, VS CODE,
FIGMA

BUILDING A SEMESTER-WISE AI + IT PROJECT PORTFOLIO

SEMESTER 1

AI FOR COMPUTING FUNDAMENTALS & INTELLIGENT SYSTEMS

FROM BASICS TO BRILLIANCE: AI THAT THINKS.

- Understand how AI enhances software development, automation & user experience
- Explore real-world IT applications across web, mobile, cloud & data systems
- Build an AI-first developer mindset for solving complex computing problems
- Learn to integrate AI tools into coding, testing & application development



SHADOW PROJECTS

MICROSOFT

Ai Code Reviewer
Build an AI tool similar to Microsoft's Code Review Assistant that analyzes code, detects bugs, and suggests improvements.

GOOGLE

Smart Search Engine Module
Create a mini Google-like intelligent search feature that retrieves the most accurate information from a dataset.

INFOSYS

It Helpdesk Automation Bot
Develop an AI chatbot similar to Infosys AssistEdge that solves common IT issues automatically.

IBM

Cloud Resource Optimization Tool
Build a small-scale version of IBM Cloud Optimizer to predict server load and optimize resource usage.

TCS

Network Anomaly Detection System
Design a tool inspired by TCS Cybersecurity solutions to detect suspicious network activities.

AMAZON

Ai Recommendation Engine
Create an Amazon-style product recommendation system for any dataset (Books, Movies, or Gadgets).

SEMESTER 2

AGENTIC AI & NO-CODE BUSINESS WORKFLOWS

PROGRAMMING REIMAGINED THROUGH THE POWER OF AI.

- Understand Agentic AI & how autonomous AI agents work
- Work with no-code and low-code platforms to build business solutions
- Design automation workflows that streamline & optimize operations
- Integrate tools like AI chatbots, digital agents, and automated pipelines
- Create real-world business apps with minimal coding
- Improve productivity, decision-making, and operational efficiency through automation

SHADOW PROJECTS

WIPRO

Design an AI-powered change-request approval system. Auto-validate requests, send alerts, and notify stakeholders.

HCL TECHNOLOGIES

Create a digital agent for server health monitoring. AI bot checks server logs, triggers alerts, and sends uptime/down-time reports.

DELOITTE

Develop an AI-driven process automation for auditing tasks. Use no-code workflows to reconcile data & flag discrepancies.

TECH MAHINDRA

Build a customer support chatbot using no-code AI Automates. FAQs, password reset requests, and escalation workflows.

CISCO

AI agent for network device monitoring & automated alerts.

ORACLE

Automation workflow for database backup notifications & error logs.



SEMESTER 3

AI-ENHANCED SOFTWARE DEVELOPMENT & DATA MANAGEMENT

PROGRAMMING REIMAGINED THROUGH THE POWER OF AI.

- Apply data structures to build efficient AI-enabled applications
- Use Python with AI libraries (NumPy, Pandas, Scikit-Learn) for problem-solving
- Design and manage relational databases with AI-assisted optimization tools
- Implement software engineering principles supported by AI project-management assistants
- Build mini-projects integrating AI automation and data analytics

SHADOW PROJECTS

INFOSYS

Enterprise Data Organization Tool

Students will build a mini data-sorting & searching system using Data Structures (stacks, queues, trees) to simulate how Infosys organizes enterprise data.

TCS

Ai-based Helpdesk Automation: Students will create a Python chatbot for answering basic queries, similar to automated support systems used by Tata Consultancy Services.

WIPRO

Smart Attendance & Record Management: Students will design a DBMS project to store & retrieve attendance using AI-assisted SQL query generation.



SEMESTER 4

AI-DRIVEN NETWORKS, ALGORITHMS & INNOVATION

BUILD INTELLIGENT NETWORK SYSTEMS, OPTIMIZE ALGORITHMS, AND INNOVATE USING AI

- Understand and simulate computer networks using AI-assisted tools
- Analyze and optimize algorithms using AI-driven performance insights
- Apply AI techniques for search, prediction, and reasoning
- Design advanced relational databases and implement stored procedures
- Develop innovative solutions using design thinking frameworks
- Explore entrepreneurship and startup ecosystems supported by AI tools

SHADOW PROJECTS

GOOGLE

Ai-based Route Optimization

Students build a shortest-path graph algorithm (DAA) to simulate how Google Maps finds optimal routes

CISCO

Smart Network Packet Analyzer Students create a mini network packet capture & analysis tool using Python + networking concepts.

AMAZON WEB SERVICES (AWS)

Ai-driven Cloud Recommendation System: Students develop a Python-based rule engine to suggest cloud storage or compute options based on user needs.



SEMESTER 5

AI-ENHANCED ADVANCED COMPUTING & INDUSTRY PROJECTS

MASTER EMERGING TECHNOLOGIES THAT BUILD REAL INDUSTRY-GRADE SOLUTIONS WITH AI

- Apply AI tools to deepen expertise in specialized elective areas
- Configure, simulate, and analyze advanced computer networks
- Build professional minor and capstone projects aligned with industry standards
- Use AI to optimize coding, debugging, testing, and documentation
- Integrate databases, networks, AI, and full-stack concepts in real-world solutions

SHADOW PROJECTS

CAPGEMINI

Work on a small module of Capgemini's large code-quality system by building a mini AI-based bug detection tool for basic Python programs.

COGNIZANT

Create a simplified version of Cognizant's incident prediction platform by developing a basic ML model that predicts minor system issues using log files.

ORACLE

Build a small part of Oracle's database optimization engine by designing an AI-assisted SQL query analyzer that suggests simple performance improvements.

SAP

Develop a mini workflow automation component inspired by SAP's enterprise tools, focusing on automating one business process such as approvals or notifications.

DELL TECHNOLOGIES

Implement a basic predictive health module similar to Dell's device monitoring system, where we predict small hardware issues using sample data



SEMESTER 6

CYBER & AI-DRIVEN SOLUTIONS

SECURE, INNOVATE, AND LAUNCH REAL-WORLD IT SOLUTIONS

- Understand key concepts and practices in cybersecurity and apply them in practical scenarios
- Develop & implement solutions for elective subject topics with AI or industry tools
- Enhance soft skills and professional project management capabilities

SHADOW PROJECTS

MINDTREE

Create a simplified version of Cognizant's incident prediction platform by developing a basic ML model that predicts minor system issues using log files.

TECH MAHINDRA

Build a mini task tracker for personal projects using Python or PHP.

MPHASIS

Build a mini expense tracker that uses AI to categorize expenses and predict monthly savings.

L&T INFOTECH

Create a simple invoice generator that predicts recurring invoices & highlights anomalies using AI.





LEVEL UP YOUR CAREER WITH AI

- Master AI skills that drive business innovation
- Hands-on experience with real-world AI projects
- Learn to analyze, predict, and optimize with AI tools
- Build a strong AI portfolio to showcase your expertise
- Be future-ready to lead digital transformation

ACTIVITIES AT GJIMT



ELIGIBILITY CRITERIA

Passed 10+2 or equivalent in any stream by a recognized board/university, preferably with Maths.

ADMISSION PROCESS

To book your seat register on our website by paying the fees. As per IKGPTU a candidate can get provisional admission in BCA program by filling the form, submitting the documents and paying the fees online.

FEES STRUCTURE

Semester 1	₹42,500/-
Semester 2	₹38,500/-
Semester 3	₹38,500/-
Semester 4	₹38,500/-
Semester 5	₹38,500/-
Semester 6	₹38,500/-
Total	₹2,35,000/-

ADMISSION DOCUMENTS

- 10th DMC
- Character Certificate
- Achievements Certificate (If any)
- Category Certificate (if applicable)
- 12th DMC
- Migration Certificate
- GAP Certificate (If Applicable)
- Aadhaar Card
- 5 Passport size photos

*FEES Exclusive of:

• University Examination Fee to be paid Online • College Kit worth ₹4500 by Candidate during examination • Fees Subject to Revision by IKG PTU (If any)



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