



Adamas University

NAAC A, UGC-Entitled, AICTE Approved, NIRF #100-150

B.Tech (FinTech and Data Science)

Type

Ug Program

Mode

Campus

Duration

4 Years

Total fees

₹ 843,800

Adamas University

Adamas University is located in Barasat, just 13 km from Netaji Subhash Chandra Bose International Airport, Kolkata. The university has a large green campus spread across 120 acres, offering students a peaceful and modern learning environment. Now in its 10th year of operation, the university aims to provide high-quality education to students in West Bengal. It has well-equipped research facilities and an experienced team of teachers who guide students both academically and professionally. Adamas University is accredited with a NAAC 'A' Grade, reflecting strong academic processes, faculty quality, learning outcomes, and institutional governance. With 10+ years of focused academic delivery, the university has built a learning ecosystem grounded in consistency, progression, and student success.

B.Tech (FinTech and Data Science)

Highlights

- ◆ Classroom or blended learning environment that supports direct engagement with AI in fintech, digital finance, and financial technology innovation.
- ◆ Experiential components help learners explore Engineering Mathematics I, Environmental Science, fintech models, and AI in finance through projects, discussions, or applied tasks.
- ◆ Encourages concept clarity, collaboration, and guided problem-solving in structured academic settings.
- ◆ Connects subject learning with digital finance products, customer data, transactions, and risk signals, making the programme more practice-oriented.
- ◆ Supports future academic and career pathways in FinTech Analyst, Data Analyst, and Risk & Compliance Analyst and related fintech strategy, digital banking, risk analytics, product innovation, and AI-enabled finance roles through a stronger applied foundation, with added focus on problem-solving discipline.

Learning outcomes

- ◆ Within B.Tech (FinTech and Data Science) from ADAMAS University, analyze digital finance products, customer data, transactions, and risk signals using concepts from Engineering Mathematics I, Environmental Science, fintech models, and AI in finance.
- ◆ Apply subject knowledge to solve fraud detection, credit analytics, compliance, and fintech product challenges with greater structure and clarity.
- ◆ Evaluate fintech decisions that balance innovation, customer trust, risk, and regulation while considering responsible innovation, compliance awareness, and analytical discipline.
- ◆ Create or present fintech use-case briefs, AI model notes, and digital finance strategy summaries with clear structure and practical relevance.
- ◆ Build readiness for progression in FinTech Analyst, Data Analyst, and Risk & Compliance Analyst and related fintech strategy, digital banking, risk analytics, product innovation, and AI-enabled finance roles through stronger subject understanding and applied thinking, while strengthening problem-solving discipline.

Eligibility Criteria

Minimum 60% aggregate in 10+2 or equivalent from any recognized board with Physics, Mathematics + Chemistry/Computer Science/Electronics/Information Technology/Biology/Informatics Practices/Biotechnology/Technical Vocational Subject/Agriculture/Engineering Graphics/Business Studies/Entrepreneurship (with minimum 45% marks in the respective subject).

Curriculum Overview

Semester 1 (15 subjects)

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|---|-------------------------------------|
| ◆ Engineering Mathematics I | ◆ Principles and Applications of AI |
| ◆ Environmental Science | ◆ Life Sciences |
| ◆ Applied Science | ◆ Design Thinking & Prototyping |
| ◆ Introduction to Programming | ◆ Engineering Mechanics |
| ◆ Electrical and Electronics Technology | ◆ Engineering Drawing and CAD |
| ◆ Programming Lab | ◆ Engineering Workshop |
| ◆ Electrical and Electronics Technology Lab | ◆ Certification Course |
| ◆ English Communication | |



Curriculum Overview (continued)

Semester 2 (16 subjects)

- ◆ Engineering Mathematics II
- ◆ Environmental Science
- ◆ Applied Science
- ◆ Introduction to Programming
- ◆ Electrical and Electronics Technology
- ◆ Programming Lab
- ◆ Electrical and Electronics Technology Lab
- ◆ English Communication
- ◆ Principles and Applications of AI
- ◆ Venture Ideation
- ◆ Soft Skills and Aptitude I
- ◆ Design Thinking & Prototyping
- ◆ Engineering Mechanics
- ◆ Engineering Drawing and CAD
- ◆ Engineering Workshop
- ◆ Certification Course

Semester 3 (12 subjects)

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| ◆ Engineering Mathematics III | ◆ Principles of Programming - Lab |
| ◆ Probability and Inferential Statistics | ◆ Numerical Techniques Lab |
| ◆ Data Structure and Algorithms | ◆ Introduction to Artificial Intelligence |
| ◆ Data Structure and Algorithms - Lab | ◆ Community Service |
| ◆ Introduction to Modern Business Ecosystems | ◆ Minor Project |
| ◆ Principles of Programming Language | ◆ Certification Course |
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Semester 4 (11 subjects)

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| ◆ Database Management Systems (SQL & NoSQL) | ◆ Human Values and Professional Ethics |
| ◆ Database Management Systems - Lab | ◆ UI/UX Design for Data-Driven Applications |
| ◆ Data Visualization & Storytelling
(Tableau/PowerBI) | ◆ Design Thinking for AI Products |
| ◆ Data Visualization & Storytelling
(Tableau/PowerBI) - Lab | ◆ Minor Project |
| ◆ Digital Business Models | ◆ Certification Course |
| ◆ Supervised Machine Learning | |

Semester 5 (11 subjects)

- ◆ Reinforcement Learning & Decision Intelligence
- ◆ Reinforcement Learning & Decision Intelligence - Lab
- ◆ MLOps Automation and Orchestration
- ◆ MLOps Automation and Orchestration - Lab
- ◆ Distributed Systems and Cloud
- ◆ AI for Competitive Advantage and Market Intelligence
- ◆ Deep Learning & Neural Network Architectures
- ◆ Pattern Recognition and Soft Computing
- ◆ Data Mining and Warehousing
- ◆ Applied Macroeconomics for AI Engineers
- ◆ Certification Course

Semester 6 (12 subjects)

- ◆ Cloud Computing & AI Infrastructure
- ◆ High-Performance Computing for AI/ML
- ◆ High-Performance Computing for AI/ML - Lab
- ◆ Virtualization and Applied Cloud Computing
- ◆ Virtualization and Applied Cloud Computing - Lab
- ◆ AI in Retail and E-Commerce
- ◆ Supply Chain AI & Predictive Logistics
- ◆ Real-Time Analytics
- ◆ Statistical Modelling for Data Analytics
- ◆ Disaster Management
- ◆ Digital Signal Processing
- ◆ Certification Course



Curriculum Overview (continued)

Semester 7 (3 subjects)

- ◆ AI Governance & Policy and Compliance
 - ◆ Project Work/Internship/OJT
 - ◆ Crisis Management & Business Continuity in ICT
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Semester 8 (1 subject)

- ◆ SIRE: Scientific Investigation and Research
Experience (Project / Dissertation)

Fee Structure

Fee heads	Year 1	Year 2	Year 3	Year 4	Total
Admission Fee	₹ 43,800	—	—	—	₹ 43,800
Tuition Fee	₹ 200,000	₹ 200,000	₹ 200,000	₹ 200,000	₹ 800,000
Total	₹ 243,800	₹ 200,000	₹ 200,000	₹ 200,000	₹ 843,800