



**DBATU**  
Dr Babasaheb Ambedkar  
Technological University



APPLICATIONS  
**OPEN**  
2026 COHORT  
60 SEATS

# While they're writing résumés, you'll have a salary slip.

The degree that pays you back before you graduate.



## B.Sc. (Hons) in AI and ML – with Minor in Quantum Computing

A paid apprenticeship year (NATS)

IIT-BHU & IIIT-Allahabad campus immersion

A structured quantum computing minor

₹1 Cr+ AI, ML & Quantum Computing Lab

- | Affiliated to Dr. Babasaheb Ambedkar Technological University
- | UGC-recognised | NEP 2020-aligned
- | Curriculum built by seven senior industry technology leaders
- | Delivered by Aspire Knowledge & Skills.
- ₹2 Lakhs/year, flat ● 60 seats, by aptitude screening ● 2026 intake

## TEN REASONS THIS IS NOT ANOTHER FOUR-YEAR DEGREE

# TEN THINGS THIS DEGREE DOES THAT OTHERS DON'T.

Designed with the people who do the hiring.



**01**

### **Paid work before your degree ends.**

Year 4 is a full Government-registered paid apprenticeship under NATS. Real corporate work, with a monthly stipend paid directly to you.

**02**

### **Time on the campuses of IIT-BHU and IIIT-Allahabad.**

A credited 3-credit immersion module in Year 3 – their faculty, their campuses, their certification.

**03**

### **03 A State Technological University degree.**

Conferred by DBATU – UGC-recognised, NEP 2020-aligned. Valid for government employment, postgraduate study, and employers worldwide.

**04**

### **A curriculum written by the people who hire.**

Seven senior technology leaders – CTOs, engineering directors and digital-transformation heads – built the syllabus from scratch. Every module maps to a hireable capability.

**05**

### **A quantum computing minor – before it's table stakes.**

A structured academic minor with hands-on lab access. Not a token elective.

**06**

### **₹2 Lakhs a year. Everything on the table.**

A flat fee, published in full. No management-quota premium. Loan-processing assistance included.

**07**

### **Sixty seats, selected by screening.**

Not six hundred. Sixty. The cohort you graduate with becomes your professional network for the next thirty years.

**08**

### **Frontier hardware from Day 1.**

A dedicated AI, ML & Quantum Computing Lab – part of ₹1 Crore+ campus R&D infrastructure. Hands-on access from Semester I.

**09**

### **A Government of India Certificate of Proficiency.**

Issued at the end of the NATS apprenticeship – registrable as verified work experience, nationwide.

**10**

### **A structured path for founders.**

Four incubation centres. Dedicated founder counselling. R&D lab access to build and test ideas while you study.



## THE FOUR-YEAR STRUCTURE

# FOUR YEARS. THREE OUTCOMES. ZERO WASTED TIME.

- 01.** A university degree (conferred by DBATU – UGC-recognised).
- 02.** A Govt. of India certificate (Certificate of Proficiency under NATS).
- 03.** A year of paid experience (a real track record before graduation).

### Year One | Foundations

Mathematical foundations, programming and data fundamentals – structured so every concept maps to a capability used in real AI/ML work. Access to the campus AI, ML & Quantum Computing Lab from Semester I.

### Year Two | Core AI & ML · Quantum minor begins

Core machine learning, modern AI systems and enterprise tooling. The quantum computing minor begins here – quantum concepts and quantum-information thinking taught alongside the AI/ML core. Training runs on the cloud, data and deployment stacks that partner enterprises operate in production.

### Year Three | Capstone & IIT/IIIT immersion

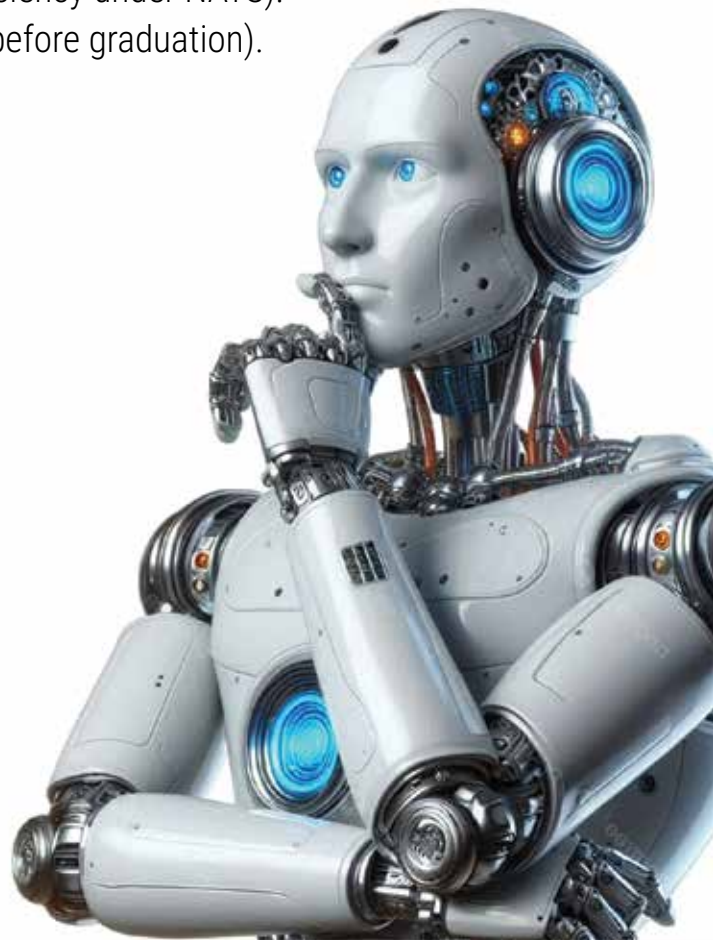
Advanced AI/ML coursework, the applied quantum-minor modules, the mandatory industry-sponsored capstone project, and a credited 3-credit immersion at IIT-BHU and IIIT-Allahabad – taught by their faculty, on their campuses, certified by them.

**3-CREDIT MODULE · OFFICIAL IIT & IIIT CERTIFICATION**

### Year Four | Year-long paid apprenticeship

The full final year is a registered apprenticeship under the Government of India's NATS – credited, mentored and paid. A year of real corporate work inside a partner enterprise, with the production-grade capstone delivered within it. It ends in a Government of India Certificate of Proficiency.

**MONTHLY STIPEND ~₹10,000–15,000/month**  
**TYPICAL MONTHLY STIPEND ₹10,000–15,000 –**  
**SET BY THE HOST EMPLOYER UNDER NATS NORMS**  
**GOVT. OF INDIA CERTIFICATE**



“By the time the apprenticeship year arrives, our students aren’t learning the stack. They’re already fluent in it.”

## THE IIT-BHU & IIIT-ALLAHABAD IMMERSION

# YOU'LL STUDY ON THE CAMPUSES OF IIT-BHU AND IIIT-ALLAHABAD BEFORE MOST ENGINEERS EVER SET FOOT THERE.

This is not a webinar. Not a recorded lecture series. Not a certificate from a third-party platform that borrowed someone's name. In Year 3, a credited 3-credit module takes the cohort on-site to IIT-BHU and IIIT-Allahabad – their faculty deliver the coursework, their labs and lecture halls are where you sit, and their certifications are what you walk away with.



### Taught by their faculty

Sessions delivered by the faculty of IIT-BHU and IIIT-Allahabad themselves – not by visiting substitutes or recorded content.

### Held on their campuses

The immersion takes place on-site, in the labs and lecture halls of IIT-BHU and IIIT-Allahabad.

### Their official certification

On completion, students receive the official certifications issued by IIT-BHU and IIIT-Allahabad for the module.

## IIT-BHU

IMMERSION MODULE · CERTIFIED

## IIIT-Allahabad

IMMERSION MODULE · CERTIFIED

A 3-credit module within the Year 3 academic structure. Built into the degree – no additional tuition fee. Government-university partnerships of this kind are rarely accessible to private players – this one is built into your degree. – stay and hostel isn't included.



## THE AI EXPERT COMMITTEE · COURSE CREATORS

# THE CURRICULUM WAS WRITTEN BY THE PEOPLE WHO WOULD OTHERWISE REJECT YOUR RÉSUMÉ.

These seven technology leaders didn't guest-lecture. They built the syllabus from scratch – every module, every learning outcome, every assessment rubric – in their individual capacity as domain experts.



**Mr. Kedar Deo**

Executive Director  
| Technology Consulting, EY



**Mr. Manoj Deshmukh**

Founder & CTO, Eteva Tech



**Mr. Girish Khilari**

CTO, Elliot Systems



**Mr. Aniruddh Vaidya Shahapure**

Global Leader & Digital Transformation  
Expert, ESG & Renewable Energy



**Mr. Ravindra Pal Singh**

Director of Software Engineering,  
Amdocs Ltd



**Dr. Mukund R**

Governing Council Member, NABARD;  
Advisor – Digital Transformation, RITES  
Ltd



**Mr. Mandar Halbhavi**

Deputy General Manager,  
Jio Platforms Ltd

### | Disclosure :

The curriculum has been exclusively designed and developed by these industry experts in their individual capacity as domain experts, and not as official representatives of their respective organisations.

## EXCLUSIVE INFRASTRUCTURE -

# A DEDICATED AI, ML & QUANTUM COMPUTING LAB – ON CAMPUS.

The DBATU Pune campus houses a state-of-the-art AI, ML & Quantum Computing Lab, purpose-built for this programme – the kind of hardware and access rarely found even in top-tier private institutions. It is part of ₹1 Crore+ campus R&D infrastructure, which includes a dedicated 5G lab. The point is simple: students train on real, frontier-grade hardware from the start – so the cohort is industry-ready from Day 1, not Year 4.

- | GPU compute for deep-learning training and experimentation.
- | Quantum computing on leading cloud platforms for the structured quantum minor – with hands-on hardware time during the IIT-BHU & IIIT-Allahabad immersion.
- | ML experimentation rigs for capstone and industry-sponsored projects.
- | R&D-grade tooling and datasets, available across all four years.
- | **Coming up:** a dedicated on-campus Quantum Computing Lab is under development at the Pune campus – commissioning targeted for late 2026.

## ₹1 Cr+ –

CAMPUS R&D  
INFRASTRUCTURE

## Day 1 –

HANDS-ON ACCESS  
FROM SEMESTER I

## 2026 –

ON-CAMPUS  
QUANTUM LAB,  
IN DEVELOPMENT.



The AI & ML Lab – build, train, deploy.



The Quantum Computing Lab – explore, program, innovate.



## FOR PARENTS & GUARDIANS

# A STRAIGHT ANSWER FOR THE PERSON SIGNING THE CHEQUE.

The degree is conferred by Dr. Babasaheb Ambedkar Technological University – a State Technological University of Maharashtra, established under an Act of the state government, UGC-recognised and NEP 2020-aligned. This is not a private certificate. It is a university degree, valid for government employment, postgraduate admissions, and employers across India and abroad.

During the programme your child completes a full year of registered, paid corporate apprenticeship under the Government of India's National Apprenticeship Training Scheme (NATS), finishing with a Government of India Certificate of Proficiency – verifiable, permanent work experience on paper. The cohort is sixty students, selected by aptitude screening. The fee is a flat ₹2 Lakhs per year, published in full in this brochure. Our team assists admitted students with education-loan processing.

### A degree, not a certificate:

Conferred by a State Technological University of Maharashtra. Valid for government jobs and further study, in India and abroad.

### Money in, not just out:

A monthly stipend through the year-long paid apprenticeship under NATS – typically ₹10,000–15,000/month, set under NATS norms by the host employer and confirmed at the offer stage.

### Govt. of India work experience:

A Government of India Certificate of Proficiency issued under NATS – registrable as verified work experience, nationwide.

### Fees published in full:

Flat ₹2 Lakhs/year – ₹8 Lakhs total tuition. Hostel separate. Loan-processing assistance available to admitted students.



## THE BOTTOM LINE

“A traditional fresher costs an employer roughly six months of salary before billing a single client hour. An apprenticeship-trained graduate bills from week one. Guess who gets hired first.”



## INCUBATION & ENTREPRENEURSHIP

# IF YOU WANT TO BUILD A COMPANY, THIS DEGREE BACKS YOU.

This is not a placement-only programme. Students who want to found companies get a structured path, not a pep talk – access to four incubation centres, and a team that works directly with aspiring founders to turn ideas into ventures.

### **Access to four incubation centres:**

Where student ventures are developed, supported, and taken from idea to working prototype.

### **Campus R&D infrastructure:**

We actively help students use the campus labs – including the AI, ML & Quantum Computing Lab and the 5G lab – and the incubation centres to build, test and ship while they study.

### **Dedicated founder counselling:**

Career counselling built specifically for the entrepreneurial path – not generic placement advice.

### **A culture that backs builders:**

Entrepreneurship is actively encouraged. Founding a company is a respected, supported outcome alongside industry roles.

Because placement isn't the only respectable outcome – and the programme is structured to reflect that. If a student finishes the four years with a working startup instead of an offer letter, that is – explicitly – a success.



ADMISSION • 2026

23 of 60 open

## SIXTY SEATS. SELECTED, NOT SOLD.

No quota. No queue. An aptitude screen, an interview, and a cohort of exactly 60.

*Outcomes don't scale. Factories do.*

 SIT THE SCREENING TEST →

### ADMISSION & COHORT SELECTION

## WE DON'T SELL SEATS. WE SELECT SIXTY PEOPLE.

No first-come queue. No management quota.  
A screening test, an interview, and a cohort of exactly sixty.

#### 01 Express Interest

A two-minute registration. We send you the curriculum, full fee structure and screening-test details.

**NO PAYMENT**

#### 02 Screening Test & Interview

Register for the aptitude-based screening test and pay a small assessment fee. Shortlisted candidates are invited to an interview.

**FEE ADJUSTED AGAINST YEAR 1**

#### 03 Confirm Your Seat

Admitted candidates secure their place through the official DBATU fee-payment gateway.

**ADMITTED ONLY**

#### 04

## 60 SEATS 2026 INTAKE

### No overflow batches. No second cohort.

The peer group you graduate with becomes your professional network for the next thirty years – and we kept it small on purpose, because outcomes don't scale; factories do.

SHAPING INDUSTRIES, LEADING ORGANISATIONS -

## OUR PROUD ALUMNI

The true legacy of an institution is reflected in the accomplishments of its alumni – and the university system behind this degree has been shaping engineers and leaders for decades. Aspire proudly celebrates the distinguished alumni of this network, who today lead global corporations, technology enterprises, defence organisations and industrial sectors. Their journeys are the network this cohort inherits.



### **Mr. Nikhil Junnarkar**

**Director – Bluechem Group · Germany, India, Middle East, Africa**

Leads the Germany-headquartered automotive-chemicals group's business across India, the Middle East and Africa – lubricants, additives and specialty chemicals for the global automotive industry.



### **Mr. Santosh Namdeo Ingole**

**Director – DGAQA, Ministry of Defence · OADG Nashik**

Heads quality assurance for military aircraft overhauled and manufactured at HAL Nashik – part of India's premier Government quality-assurance authority for military aviation.



### **Mr. Rupesh R Khot**

**Promoting Director – UHP Technologies Pvt. Ltd & KAS Technologies**

Delivers turnkey ultra-high-purity gas and chemical utility projects for semiconductor, solar, defence and research clients across India, Saudi Arabia, Turkey, Singapore and Israel.



### **Mr. Siddhartha Prakash Desai**

**Director – Optech Engineering, Opserv Global, Trident Oil & Gas (Kenya), Gazpro FZC (UAE) · Trustee, Parisar Aasha**

Leads a multinational LPG engineering group specialising in complete EPC solutions, with over 700 installations worldwide.



**Mr. Suhas P Talwalkar**

Deputy Functional Head, Process Department –  
L&T Energy Hydrocarbon (Offshore)

Senior process leadership on large, complex offshore oil & gas projects worldwide – fixed platforms, subsea pipelines, brownfield upgrades and decommissioning.



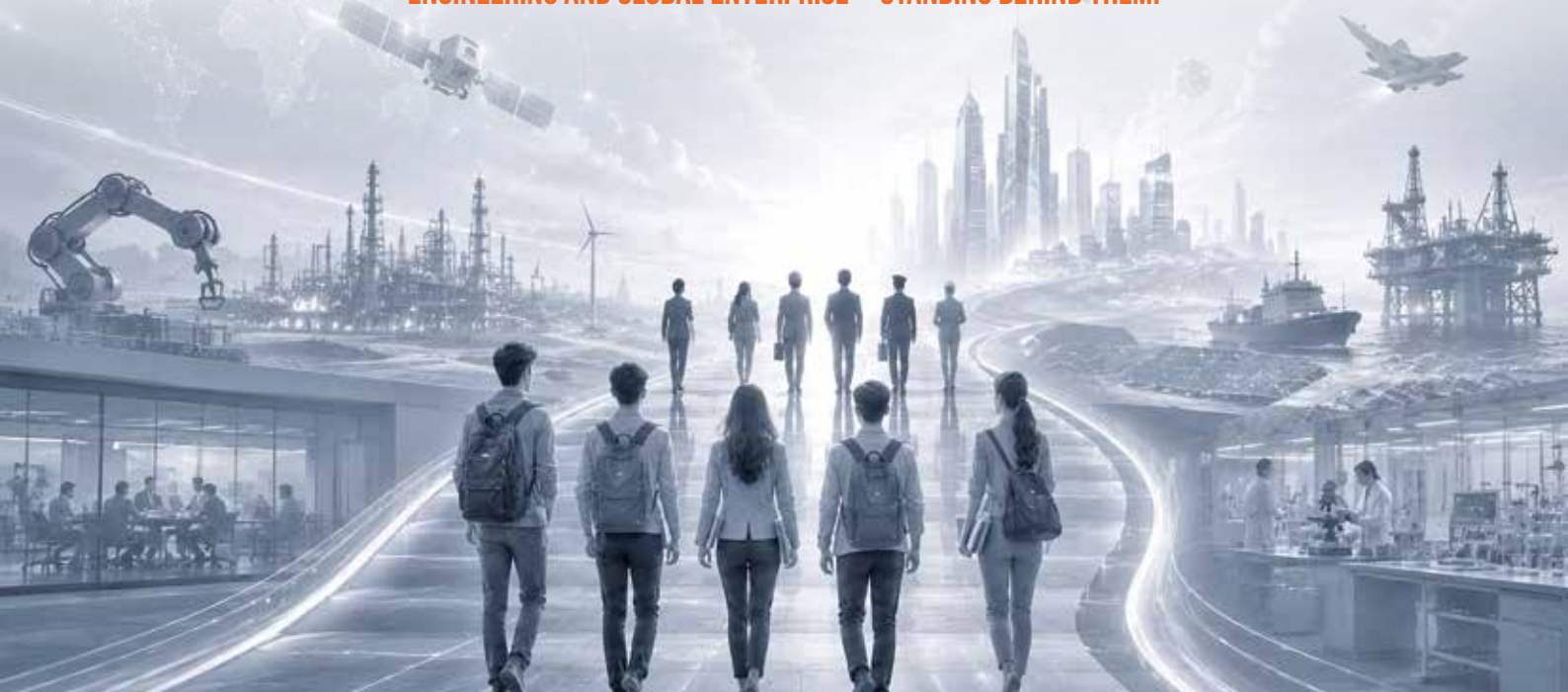
**Mr. Sanjay Singh**

Operations Development Strategy – Bacardi India

Drives operations strategy at the Indian arm of the world's largest privately held spirits company, operating in over 170 countries.

**DREAM BIGGER, LEAD CONFIDENTLY,  
AND CREATE MEANINGFUL IMPACT.**

**SIXTY STUDENTS. ONE COHORT. A NETWORK OF LEADERS ACROSS DEFENCE, ENERGY,  
ENGINEERING AND GLOBAL ENTERPRISE – STANDING BEHIND THEM.**



## PROFESSIONAL & ASPIRATIONAL - CAREER PATHWAY

Aspire's AI career pathway runs from design thinking and programming fundamentals to generative AI, agentic systems, MLOps and live industry deployment. Every semester pairs an AI focus with a full-stack track, a concrete deliverable, and a globally recognised certification target – so students graduate with proof, not just promise.

Semester	AI Focus	Full Stack Track	Key Deliverable	Certification Target
1	Design Thinking + AI Ethics	UI/UX:Figma/Adobe XD	Poster Presentation (domain problem)	IBM Enterprise Design Thinking / Google UX
2	Python OOP, DSA, DBMS	HTML/CSS/ JS+Flask CRUD	Functional Web App	IBM Python / Meta Front-End
3	ML, EDA, Stats, Cloud Basics	React + SQL + MongoDB	Predictive Web App	AWS Cloud Practitioner + Microsoft Power BI (PL-300)
4	Deep Learning: CNN, RNN, RL	Node.js, REST APIs, WebSockets	Image/Time-series App	DeepLearning.AI Deep Learning Specialization
5	NLP + MLOps	Docker, Kubernetes, CI/CD	Deployed NLP System	DeepLearning.AI NLP + Databricks
6	GenAI, RAG, Agentic AI	Vector DBs, LangChain, Microservices	Autonomous AI Agent + industry-sponsored capstone	Databricks ML Professional + Google ML Engineer
7	Industry apprenticeship (NATS)	Production deployment & ops	Live industry deliverables	Microsoft Azure AI Engineer Associate
8	Apprenticeship – Professional AI	Cloud architecture & scaling	Production-grade capstone release	Google Professional ML Engineer

Certification targets reflect programmes active as of 2026 and may be substituted with equivalent industry credentials.

**Years 1–2 build the foundations. Year 3 is the capstone year – advanced AI, the quantum minor and the IIT/IIIT immersion. Year 4 is a full paid industry apprenticeship under NATS.**

## WHAT THIS PROGRAMME IS

### **An industry-facing Honours B.Sc.:**

AI & ML core, with a minor in quantum computing – exactly as named on your degree.

### **Apprenticeship-embedded:**

Industry projects every year; a full Government-registered paid apprenticeship as the final year.

### **A launchpad for builders:**

For students who want to lead engineering teams or start companies.

## WHAT THIS PROGRAMME IS NOT

### **Not the research track:**

This is not an “Honours with Research” programme, and it doesn’t position itself as a route into UGC-NET or a PhD. The degree remains fully UGC-valid for postgraduate study.

### **Not a generic science degree:**

No filler theory. Every module maps to an industry capability.

### **Not a short-term bootcamp:**

A full, university-affiliated undergraduate qualification – not a crash course.

## INSIDE THE PROGRAMME —

**Everything is built around being hireable**

### **Honours degree structure:**

A four-year, DBATU-affiliated Honours degree. AI & ML form the technical core; quantum computing is a structured academic minor – a frontier most undergraduates never touch.

### **Apprenticeship model:**

The final year is a full registered apprenticeship, scaffolded by industry projects from Semester II onward. Students leave with a track record, not just a transcript.

### **CTO-built curriculum · IIT & IIIT immersion:**

Designed by industry leaders around how AI is actually shipped – with on-campus immersion at IIT-BHU and IIIT-Allahabad, certified by them.

### **Founder pathway:**

Four incubation centres and dedicated counselling for aspiring founders.

**TRANSPARENT FEES — ONE FLAT NUMBER. NO SURPRISES.**

# ₹2 LAKHS/YEAR

Flat, for the full programme duration. ₹8 Lakhs total tuition.

### **What the fee covers:**

- The full AI & ML Honours curriculum with the quantum computing minor
- Access to the ₹1 Crore+ AI, ML & Quantum Computing Lab
- IIT-BHU & IIIT-Allahabad immersion modules, including their official certifications
- Incubation-centre access and founder counselling

**Note:** Hostel and accommodation are not included and are arranged independently. Aspire Knowledge & Skills assists admitted students with education-loan processing.



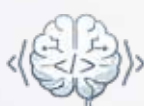
**HELPLINE :** +91 70300 60510  
**WEB :** www.dbatu.ac.in

**EMAIL :** info@dbatu.ac.in  
**ADMISSION EMAIL :** admission@dbatu.ac.in



COURSE NAME -

# B.Sc.(HONS) IN AI AND ML WITH MINOR IN QUANTUM COMPUTING



## SEMESTER I

Subjects
Programming for AI
Linear Algebra for AI
Discrete Mathematics for Computer Science
Computer Systems & Architecture
Programming Lab
Communication & Technical Writing
Environmental Awareness
Organizational Behavior
IKS: Foundations of Computing in Indian Thought
NSS/NCC/Sports/Yoga



## SEMESTER III

Subjects
Machine Learning Foundations
Calculus & Optimization for AI
Data Engineering
Computer Networks
Cloud Fundamentals
Visualization & Analytics
Project 2: ML Pipeline
Open Elective: Domain Knowledge
Lateral Thinking
Practical Use Cases



## SEMESTER II

Subjects
Advanced Data Structures & Algorithms
Probability & Statistics for AI
Database Systems
Operating Systems
Software Engineering
Project 1: Software System
Communicative English / MIL-1
IKS: Indian Mathematical Traditions & Data Science
Digital Citizenship & Cyber Awareness
Entrepreneurship
Health and Wellness



## SEMESTER IV

Subjects
Deep Learning
NLP Fundamentals
Distributed Systems
Big Data Processing
MLOps Foundations
Project 3: Deep Learning Application
MIL-2 / Constitution of India
NSS/NCC/Community Engagement





## SEMESTER V

Subjects
Generative AI
Computer Vision
Data Governance & Responsible AI
Project 4: Enterprise AI Application
National Academic Immersion Programme*
Minor in AI Engineering: Retrieval Systems & RAG · Advanced MLOps · AI System Design
*The immersion is undertaken after Semester IV; its credits are awarded in Semester V.



## SEMESTER VI

Subjects
Agentic AI & Autonomous Systems
Model Context Protocol (MCP) & AI Orchestration
Research Methodology & Seminar
Project 5: Autonomous AI System
Elective: AI for Healthcare
Minor in AI Engineering: Multimodal AI & Time Series · AI Security · AI Infrastructure



## SEMESTER VII

Subjects
Industry Apprenticeship (Full Semester)



## SEMESTER VIII

Subjects
Capstone AI System (Production-Grade Project)

Note: Delivered within the year-long NATS apprenticeship.

## MINOR IN QUANTUM COMPUTING

Subjects
Foundations of Quantum Computing: Physics, Engineering, and Mathematics Computing
Survey of Quantum technologies and Applications
Foundations of Quantum Technologies
Basic Programming Lab
Basic Laboratory Course for Quantum Technologies
Introduction to Quantum Computation
Introduction to Quantum Communication

## ELECTIVE COURSES

Engineering Foundations of Quantum Technologies
Quantum Optics

**MOST SCIENCE DEGREES PREPARE YOU FOR THE NEXT DEGREE. THIS ONE PREPARES YOU FOR THE INDUSTRY THAT'S ALREADY HIRING. —**

**THROUGH A STRUCTURED APPRENTICESHIP MODEL DESIGNED AROUND LEADERSHIP OUTCOMES.**



APPLICATIONS OPEN · 2026 COHORT

# SIXTY SEATS. ONE SCREENING TEST. A DEGREE THAT PAYS YOU BACK BEFORE YOU GRADUATE.

Step 1 takes two minutes – and costs nothing.  
You'll receive the full curriculum, fee structure  
and your screening-test details by email.



## BEGIN YOUR APPLICATION →

Scan the QR code to register for the 2026 cohort, or use the contact details below.

**Degree conferred by**  
DBATU



**DBATU**  
Dr Babasaheb Ambedkar  
Technological University

**Delivered by**  
Aspire Knowledge & Skills



**HELPLINE :** +91 70300 60510

**ADMISSION EMAIL :** admission@dbatu.ac.in

**EMAIL :** info@dbatu.ac.in

**WEB :** www.dbatu.ac.in

**CAMPUS :** DBATU Pune Regional Centre,  
4th Floor, Human Resources Development Centre,  
Department of Technology,  
Savitribai Phule Pune University (SPPU), Ganeshkhind,  
Pune, Maharashtra 411007.  
**Location :** <https://maps.app.goo.gl/KYdRR1DNuDgG3LGQ7>

