Olewin Academy

# IIT - JAM MATHEMATICS + INTERNSHIPS

**Target the Top IITs & IISc | Designed for Future Mathematicians, Data Scientists & Researchers & Quantum Computing Specalist**

**Contact Us:-**

**+91 8639449423**

**Visit:-**

https://olewinacademy.com/jam-mathematics/

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## About the Program

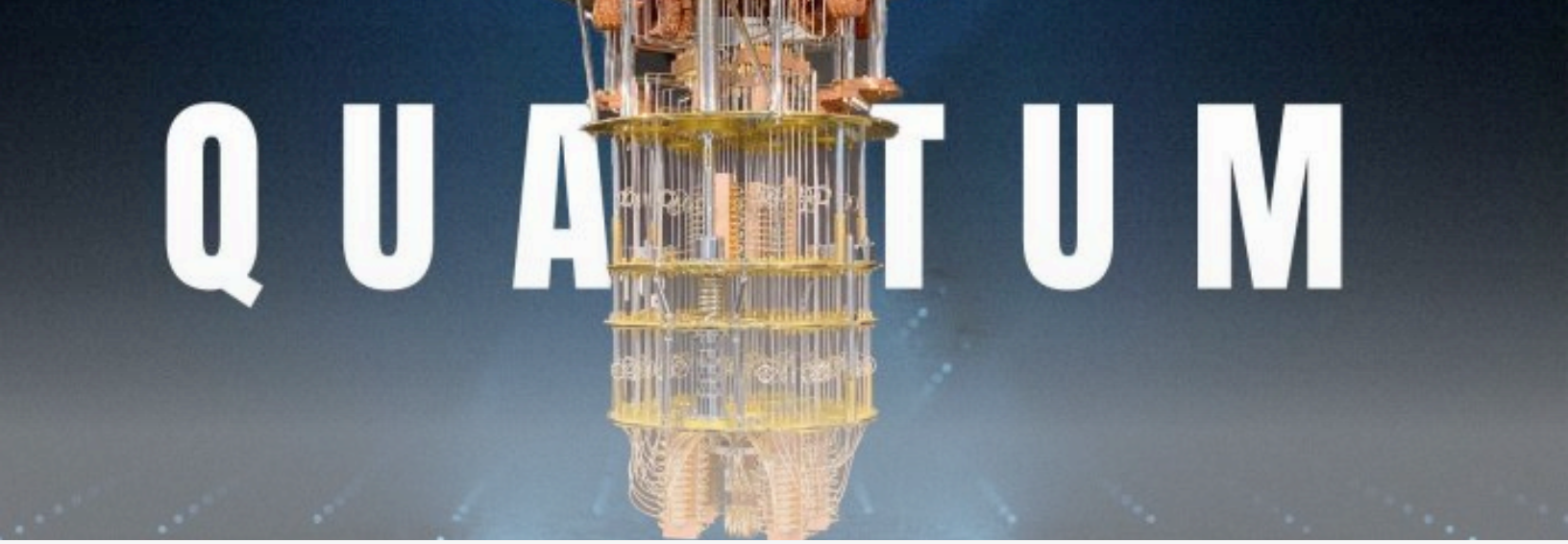
**This is a premier coaching initiative designed by experienced IITians and academic experts for students aiming to crack IIT-JAM Mathematics and secure seats in M.Sc. / Integrated Ph.D. programs at IITs, IISc, NITs, IISERs, and other top research institutes.**


## Program Features

- Complete Syllabus Coverage based on IIT Syllabus
- 1000+ Practice Questions
- Weekly Topic-wise Tests + Mock Tests
- Live Doubt Classes
- Previous Year Questions with Solutions
- Rank Booster Crash Course
- Smart Online Portal + Mobile App Access
- One-on-One Mentorship + Career Counseling
- Internships on Real world problem Solving aligned to industry Standards & Programs

## Who Should Join?

- B.Sc. Mathematics / Science students
- Students targeting IITs, IISc, NITs for M.Sc./Integrated Ph.D.
- Students interested in Data Science, Machine Learning, or Theoretical Research in AI & Quantum computing
- Aspirants for Govt. & PSU jobs requiring mathematical foundations
- Other UPSC & State Board Exams




# OPEN INTERNSHIPS (3 & 6 MONTHS)

## Are you ready ..... !

**These are cutting-edge, interdisciplinary internships that prepare mathematics students for high-demand domains in AI,quantum, data science, finance, and research.**

**Benefits From Our Acadmey**


- **2 -Certifications based on Real-world Projects**

1. **Certification of internship**
2. **Certification of Course completion**


**Official Internship Endorsment letter based on Real world Projects**

**Limited intake Only**

**For More information:**

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# INTERNSHIPS

## WHAT SHOULD YOU EXPECT FROM THIS PROGRAM & INTERNSHIPS ....?

**Why Settle for Theory When You Can Build the Future?**

### 1. Mathematical Foundations of AI: Linear Algebra and Optimization in Machine Learning

- **Objective:** Apply advanced linear algebra and optimization methods (gradient descent, matrix factorization) to train ML models and analyze their efficiency.
- **Skills Gained:** Python, NumPy, TensorFlow, Gradient Descent, Eigenvalue Analysis, Convex Optimization.

### 2. Predictive Modeling & Probability in AI: Bayesian Inference and Stochastic Processes

- **Objective:** Use probability, statistics, and stochastic models to build AI systems like recommendation engines or risk predictors.
- **Skills Gained:** Probability Theory, Bayesian Networks, Markov Chains, Monte Carlo Simulations, Python Stats Libraries.

### 3. Numerical Methods in Scientific Computing for AI and Physics Simulations

- **Objective:** Leverage numerical methods to solve PDEs and simulate AI-driven models in physical systems.
- **Skills Gained:** Finite Difference Methods, Runge-Kutta, Error Estimation, Applied Math in AI Systems, SciPy, MATLAB.

### 4. AI for Finance: Mathematical Modeling & Algorithmic Trading

- **Objective:** Explore financial mathematics and AI for market prediction, using stochastic calculus and data-driven strategies.
- **Skills Gained:** Time Series Analysis, Financial Derivatives, AI in Finance, Python, Pandas, QuantLib & Quantum Compuitng

**Internship programs will be updated subject to on demand technologies like (quantum computing, Astro Models & Cosmoterra data models )**

Note:- This is a real-time, industry-aligned professional program designed for serious learners who want to build practical expertise through hands-on projects and live case studies.

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# COMPANY PROFILE

Olewin Academy

## AN IIT ALUMNUS PLATFORM

**Empowering learners globally with quality education and training content for new approach to learning paradigms**

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Thank you for choosing our Platform