

# FUTURENSE TECHNOLOGIES

*Empowering Students with Future-Ready Skills*

## PROPOSAL RESPONSE

### AI TOOLS LITERACY & VIRTUAL SKILL LAB PROGRAM FOR BSC STUDENTS

<b>RFP Reference:</b>	RFP-IAST-2026
<b>Prepared For:</b>	Institute of Advanced Science & Technology (IAST)
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## **1. Executive Summary**

### **1.1 Our Understanding**

Your institution seeks to bridge the critical skills gap facing BSc students by providing them with practical exposure to modern AI tools and platforms that are reshaping academic research, data analysis, and professional workflows. The solution must deliver hands-on learning experiences while maintaining curriculum alignment, accessibility for all students, and measurable career readiness outcomes that enhance placement statistics and institutional reputation.

### **1.2 Our Solution**

Futurense Technologies proposes a comprehensive AI Tools Literacy & Virtual Skill Lab Platform Rs 2,950 a dual-track program that combines structured tool literacy training with an always-accessible virtual laboratory. Our solution is specifically designed for the unique needs of BSc students across Computer Science, Data Science, Statistics, Mathematics, and General Science streams.

Our platform ensures:

- 85%+ Student Engagement through gamified, project-based learning modules with real-world applications
- Sub-24-Hour Response Time for student queries via AI-powered support chatbot and peer learning communities
- Zero Physical Infrastructure Cost through fully cloud-based delivery accessible 24/7 from any device
- Portfolio Creation enabling every student to graduate with 5-8 demonstrable, industry-relevant projects
- Industry Validation with official industry certifications from Microsoft, Google, and leading AI platforms
- Proven Track Record with 91% completion rates across 25+ higher education institutions
- NEP 2020 Compliance with full support for experiential learning and skill-based education requirements

### **1.3 Investment Summary**

<b>Component</b>	<b>One-Time Cost</b>	<b>Annual Recurring</b>
<b>Platform Setup &amp; Customization</b>	Rs 9,25,000	Rs 2,950
<b>Content Development &amp; Curation</b>	Rs 7,50,000	Rs 2,950

<b>Faculty Training Program</b>	Rs 2,75,000	Rs 2,950
<b>Platform License (500 students)</b>	Rs 2,950	Rs 10,50,000
<b>Technical Support &amp; Updates</b>	Rs 2,950	Rs 4,25,000
<b>Total First Year Investment</b>	Rs 19,50,000	Rs 14,75,000
<b>Per Student Cost (Year 1)</b>	Rs 6,850	Rs 2,950

Note: Pricing includes all software licenses, cloud infrastructure, learning content, certifications, and ongoing support. No hidden costs or additional fees.

## 2. Company Profile

### 2.1 About Futurense Technologies

Founded in 2018, Futurense Technologies is a leading provider of AI-powered skill development platforms for higher education in India. We specialize in bridging the academia-industry gap through practical, tool-centric learning experiences that prepare students for modern workplace demands.

**Our Mission:** Democratize access to cutting-edge AI tools and practical skills for every student, regardless of their technical background or institutional resources.

### 2.2 Track Record & Achievements

Metric	Performance
<b>Institutions Served</b>	25+ across India including 8 Central Universities
<b>Students Impacted</b>	22,000+ BSc/BTech/BCA students
<b>Average Completion Rate</b>	95% (industry average: 60%)
<b>Placement Improvement</b>	42% average increase in placement rates
<b>Student Satisfaction</b>	4.7/5.0 average rating
<b>Industry Partners</b>	15+ including Microsoft, Google, IBM, TCS

### 2.3 Relevant BSc Program Experience

Case Study 1: Christ University College, Bangalore

Program: BSc Data Science & Computer Science, 450 students across 3 years

Key Outcomes:

- Completion rate: 96%
- Placement rate improved from 52% to 78%
- Average package increased by Rs 2.5 LPA
- 100% students created minimum 6 portfolio projects

Case Study 2: University of Hyderabad University, Hyderabad

Program: BSc Computer Science & Statistics, 680 students

Key Outcomes:

- Completion rate: 94%
- 45% students secured data analyst internships
- Faculty adoption: 85% integrated tools in coursework
- Institution won Innovation in Education award

### **3. Technical Approach & Solution Architecture**

#### **3.1 Platform Architecture Overview**

Our AI Tools Literacy & Virtual Skill Lab Platform is built on a modern, cloud-native architecture designed for scalability, security, and seamless user experience. The platform consists of three core layers:

- Learning Management Layer: Customized Canvas/Moodle integration with gamification and analytics
- Virtual Lab Layer: Cloud-based Jupyter Hub, VS Code workspaces, and tool sandboxes
- AI Support Layer: Intelligent chatbot, automated grading, personalized recommendations

#### **3.2 Dual-Track Learning Model**

Track 1: AI Tools Literacy Program (8-10 weeks, 3-4 hours per week)

A structured, instructor-guided program introducing students to industry-standard AI and productivity tools.

- Module 1: Introduction to AI & Conversational Tools (ChatGPT, Claude)
- Module 2: Data Visualization & Business Intelligence (Power BI, Tableau)
- Module 3: Productivity & Collaboration Tools (Notion AI, Microsoft 365)
- Module 4: Programming with AI Assistance (GitHub Copilot, Python)
- Module 5: No-Code AI & AutoML (Google AutoML, Orange)
- Module 6: Research Tools & Academic Workflows

#### Track 2: Virtual Skill Lab (Full academic year access)

An always-on, self-paced laboratory where students apply learned skills through progressive challenges.

- Guided Notebooks: 80+ pre-configured Jupyter notebooks
- Auto-Graded Assignments: Instant feedback on all exercises
- Progressive Difficulty: Beginner to Advanced pathways
- Real Datasets: Industry-standard datasets from Kaggle, UCI
- Peer Collaboration: Discussion forums and team projects
- Portfolio Builder: Automatic portfolio compilation

### 3.3 Tools & Technologies Covered

Category	Tools Included
AI & Conversational Tools	ChatGPT, Claude, Gemini, Microsoft Copilot
Data Analysis & BI	Power BI, Looker Studio, Tableau, Excel Advanced
Programming & Development	Python, Jupyter, GitHub, VS Code
AutoML & No-Code	Google AutoML, Orange, KNIME
Productivity	Notion, Canva, Google Workspace
Research & Academic	Zotero, Mendeley, Overleaf

## 4. Program Structure & Delivery Model

### 4.1 Program Duration & Time Commitment

Component	Duration	Weekly Effort	Total Hours
AI Tools Literacy	8-10 weeks	3-4 hours	30-40 hours
Virtual Skill Lab	Full year	2-3 hours	60-80 hours
Capstone Projects	6-8 weeks	4-5 hours	25-35 hours
<b>Total Program</b>	6 months	4-6 hours avg	115-155 hours

## 4.2 Learning Modes Mix

Learning Mode	Percentage	Activities
Asynchronous	70%	Video tutorials, exercises, auto-graded assignments
Synchronous	20%	Weekly Q&A, monthly masterclasses, project reviews
Hybrid	10%	Optional labs, hackathons, industry visits

## 4.3 Assessment & Certification

Students progress through a comprehensive assessment framework:

- Module Quizzes (20%): Auto-graded knowledge checks
- Practical Assignments (30%): Tool-based tasks
- Mini-Projects (25%): 3-5 small projects
- Capstone Project (25%): Major end-to-end project

Certification Levels:

- Bronze: Complete 60% modules + 3 mini-projects
- Silver: Complete 80% modules + 5 mini-projects + capstone
- Gold: Complete 100% + all projects + peer mentoring

## 5. Compliance with RFP Requirements

### 5.1 Functional Requirements Compliance Matrix

Requirement	Our Solution	Status
<b>Hands-on AI tools exposure</b>	18+ tools with guided practice	Fully Compliant
<b>24/7 self-paced access</b>	Cloud platform, no restrictions	Fully Compliant
<b>500+ concurrent students</b>	Tested for 10,000 users	Exceeds
<b>Auto-grading &amp; feedback</b>	AI-powered grading system	Fully Compliant
<b>Portfolio creation</b>	Automated portfolio builder	Fully Compliant
<b>LMS integration</b>	LTI 1.3 supported	Fully Compliant

<b>Mobile-responsive</b>	Progressive web app	Fully Compliant
<b>Real-world datasets</b>	100+ curated datasets	Fully Compliant
<b>Certification</b>	Bronze/Silver/Gold levels	Fully Compliant
<b>Analytics dashboard</b>	Comprehensive dashboards	Fully Compliant

## 6. Security, Privacy & Compliance

### 6.1 Data Security Framework

- Encryption: All data encrypted at rest (AES-256) and in transit (TLS 1.3)
- Authentication: SSO integration with institutional identity providers
- Authorization: Role-based access control (RBAC)
- Network Security: WAF, DDoS protection, regular penetration testing
- Monitoring: 24/7 SOC monitoring for threats
- Incident Response: <4 hour notification SLA

### 6.2 Regulatory Compliance

- Information Technology Act, 2000 (India): Full compliance
- Digital Personal Data Protection Act, 2023: Certified compliant
- ISO 27001:2013: Information Security Management certification
- ISO 9001:2015: Quality Management certification
- WCAG 2.1 Level AA: Web accessibility standards

## 7. Implementation Plan & Timeline

### 7.1 Phased Implementation (16 Weeks)

Phase	Duration	Key Deliverables
<b>Planning &amp; Setup</b>	Weeks 1-3	Customized platform, project charter
<b>Infrastructure</b>	Weeks 4-6	Cloud setup, SSO/LMS integration
<b>Content Development</b>	Weeks 5-8	Complete course catalog, notebooks
<b>Faculty Training</b>	Weeks 9-10	Trained faculty team, support materials
<b>Pilot Launch</b>	Weeks 11-13	Pilot with 50-100 students, refinements
<b>Full Rollout</b>	Weeks 14-16	All students enrolled,

program live

## 7.2 Key Milestones

- Week 3: Platform Access for admin
- Week 8: Content Approval by faculty
- Week 10: Faculty Readiness confirmed
- Week 13: Pilot Go/No-Go decision
- Week 15: Full Program Launch
- Week 20: First Quarterly Review

## 8. Detailed Pricing & Investment

### 8.1 One-Time Implementation Costs

Component	Cost (INR)
Platform Setup & Customization	Rs 4,00,000
LMS Integration	Rs 1,50,000
Content Development	Rs 4,50,000
Content Customization	Rs 1,25,000
Tool License Procurement	Rs 1,00,000
Faculty Training Program	Rs 2,75,000
Pilot Program Support	Rs 1,00,000
Project Management	Rs 2,00,000
<b>Total One-Time Investment</b>	<b>Rs 19,50,000</b>

### 8.2 Annual Recurring Costs

Component	Annual Cost (INR)
Platform License (500 students)	Rs 6,00,000
Tool Licenses (Ongoing)	Rs 1,50,000
Cloud Infrastructure	Rs 1,50,000
Content Updates (Quarterly)	Rs 2,00,000
Technical Support (24/7)	Rs 2,50,000
Success Management	Rs 1,10,000
<b>Total Annual Recurring</b>	<b>Rs 14,75,000</b>

### 8.3 Payment Terms

- 25% upon contract signing (Rs 4,37,500)
- 35% upon platform delivery and faculty training - Week 10 (Rs 6,12,500)

- 25% upon successful pilot completion - Week 13 (Rs 4,37,500)
- 15% upon full program launch - Week 15 (Rs 2,62,500)
- Annual recurring costs billed quarterly in advance

## 9. Ongoing Support & Success Management

### 9.1 Comprehensive Support Model

Support Level	Response Time	Availability
Tier 1: Student Support (AI chatbot)	Instant	24/7
Tier 2: Technical Support (email/chat)	<4 hours	Mon-Fri 9am-9pm
Tier 3: Faculty Support	<2 hours	Mon-Fri 9am-6pm
Tier 4: Critical Issues	<30 minutes	24/7
Success Manager	Proactive	Quarterly reviews

### 9.2 Platform Updates

- Minor Updates: Weekly (bug fixes, performance)
- Feature Updates: Monthly (new features, UI enhancements)
- Content Updates: Quarterly (new tools, updated modules)
- Major Releases: Semi-annually (significant capabilities)

### 9.3 Performance SLAs

Metric	SLA Commitment
Platform Uptime	99.5%
Support Response (Critical)	<30 minutes
Support Response (Standard)	<4 hours
Support Resolution	<24 hours for 90% of tickets
Student Satisfaction	4.5/5.0 or higher
Platform Performance	<2 second page load

## 10. Expected Outcomes & Success Metrics

### 10.1 Student Outcome Projections

Metric	Baseline	Year 1 Target	Year 2 Target
Program	N/A	90%	95%

<b>Completion</b>			
<b>Tool Proficiency</b>	25%	85%	90%
<b>Portfolio Projects</b>	0-1	5-6 average	6-8 average
<b>Placement Rate</b>	55%	70%	80%
<b>Average Salary</b>	Rs 3.2 LPA	Rs 3.8 LPA	Rs 4.2 LPA
<b>Higher Studies</b>	30%	40%	50%
<b>Student Satisfaction</b>	N/A	4.5/5.0	4.7/5.0

## 10.2 Institutional Outcomes

<b>Metric</b>	<b>Year 1 Target</b>	<b>Year 2 Target</b>
<b>BSc Enrollment Growth</b>	+15%	+30%
<b>Industry Partnerships</b>	8	12
<b>Media Recognition</b>	5-10 mentions	10-15 mentions
<b>Faculty Tool Adoption</b>	60%	85%
<b>Research Output Increase</b>	+40%	+75%

## Conclusion

Futurense Technologies is uniquely positioned to partner with your institution in transforming BSc education through our AI Tools Literacy & Virtual Skill Lab Program. Our proven track record with 30+ institutions, 95% student completion rates, and measurable placement improvements demonstrate our ability to deliver results.

This is not just a technology platform Rs 2,950 it is a comprehensive partnership designed to enhance student outcomes, improve institutional reputation, and prepare BSc graduates for the AI-powered future of work.

We look forward to demonstrating our platform, answering your questions, and ultimately partnering with you in this transformative initiative.

Respectfully submitted,

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