

FUTURENSE TECHNOLOGIES

Empowering Students with Future-Ready Skills

PROPOSAL RESPONSE

AI TOOLS LITERACY & VIRTUAL SKILL LAB PROGRAM FOR BSC STUDENTS

RFP Reference:	RFP-IAST-2026
Prepared For:	Institute of Advanced Science & Technology (IAST)
Submission Date:	January 28, 2026
Valid Until:	April 28, 2026 (90 days)

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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

Futureense 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

Component	One-Time Cost	Annual Recurring
Platform Setup & Customization	Rs 9,25,000	Rs 2,950
Content Development & Curation	Rs 7,50,000	Rs 2,950

Faculty Training Program	Rs 2,75,000	Rs 2,950
Platform License (500 students)	Rs 2,950	Rs 10,50,000
Technical Support & Updates	Rs 2,950	Rs 4,25,000
Total First Year Investment	Rs 19,50,000	Rs 14,75,000
Per Student Cost (Year 1)	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 Futureense Technologies

Founded in 2018, Futureense 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
Institutions Served	25+ across India including 8 Central Universities
Students Impacted	22,000+ BSc/BTech/BCA students
Average Completion Rate	95% (industry average: 60%)
Placement Improvement	42% average increase in placement rates
Student Satisfaction	4.7/5.0 average rating
Industry Partners	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
Total Program	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
Hands-on AI tools exposure	18+ tools with guided practice	Fully Compliant
24/7 self-paced access	Cloud platform, no restrictions	Fully Compliant
500+ concurrent students	Tested for 10,000 users	Exceeds
Auto-grading & feedback	AI-powered grading system	Fully Compliant
Portfolio creation	Automated portfolio builder	Fully Compliant
LMS integration	LTI 1.3 supported	Fully Compliant

Mobile-responsive	Progressive web app	Fully Compliant
Real-world datasets	100+ curated datasets	Fully Compliant
Certification	Bronze/Silver/Gold levels	Fully Compliant
Analytics dashboard	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
Planning & Setup	Weeks 1-3	Customized platform, project charter
Infrastructure	Weeks 4-6	Cloud setup, SSO/LMS integration
Content Development	Weeks 5-8	Complete course catalog, notebooks
Faculty Training	Weeks 9-10	Trained faculty team, support materials
Pilot Launch	Weeks 11-13	Pilot with 50-100 students, refinements
Full Rollout	Weeks 14-16	All students enrolled,

		program live
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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
Total One-Time Investment	Rs 19,50,000

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
Total Annual Recurring	Rs 14,75,000

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%

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

10.2 Institutional Outcomes

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

Conclusion

Futureense 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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