

EDUNIKETAN PRIVATE LIMITED
Placement Training & Technology Education Division

TheEduCode

Placement Readiness & Enterprise Assessment Infrastructure

Formal Collaboration Proposal
For University Placement & Training Departments

Submitted By: Eduniketan Private Limited
Souvik Gupta & Saif Siddique | Directors
founder.souvik@eduniketanpvtltd.com | cofounder.saif@eduniketanpvtltd.com
www.eduniketanpvtltd.com | www.theeducode.com
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1. EXECUTIVE OVERVIEW

Indian engineering universities are facing a silent placement crisis. Students who score consistently throughout their degree—who clear every academic examination—still cannot write optimized, time-bound code under interview pressure. Not because they lack intelligence, but because the environments they were trained in never reflected how companies actually test.

The first gate of every campus hiring drive is an automated Online Assessment (OA). Product-based companies use these to eliminate candidates before any human recruiter is involved.

TheEduCode redefines what a university assessment platform should be. It is not a digital exam portal; it is a **Placement Readiness Ecosystem** built to take students from classroom learners to placement-ready engineers. Our military-grade security is the foundation that makes this placement data 100% trustworthy for your institution.

Core Value Propositions

- **Placement-First Pedagogy:** Every problem is designed with one question: *Will this help the student clear a Tier-1 technical interview?*
- **Industry-Grade Environment:** The Monaco Editor (VS Code engine), 50+ languages, and sub-2s compilation—the exact environment top companies use.
- **Enterprise Security:** A six-layer, OS-level lockdown architecture that eliminates AI overlays and remote desktops.
- **Scalable for Mega-Institutions:** Cloud-native infrastructure proven to support thousands of concurrent users on bandwidth as low as 0.5 Mbps.
- **Proven Regional Dominance:** Successfully deployed at **Lovely Professional University (LPU)** with zero security incidents.

2. THE PLACEMENT READINESS GAP

The structural mismatch between what universities teach and what companies test is a systemic issue. TheEduCode is designed to close this gap.

WHAT UNIVERSITIES CURRENTLY PROVIDE	WHAT TIER-1 COMPANIES ACTUALLY TEST	WHAT TheEduCode DELIVERS
Syntax-based academic lab programs.	LeetCode-style algorithmic thinking under timed, unassisted pressure.	OA-format practice in the exact environment companies use to screen.
Theory of Data Structures in isolation.	DSA applied to optimize real-world system behaviour.	DSA taught with business context —why it matters, not just how to code it.

WHAT UNIVERSITIES CURRENTLY PROVIDE	WHAT TIER-1 COMPANIES ACTUALLY TEST	WHAT TheEduCode DELIVERS
Manual evaluation by faculty.	Strict Time & Space complexity benchmarks.	Automated evaluation graded on algorithmic efficiency (Big-O).
Identical exam questions for all students.	Unassisted, pressure-simulated technical rounds.	Secure lockdown environment with AI process termination.
No visibility into student readiness.	Expectation of highly qualified candidate routing.	Readiness Dashboards for placement coordinators.

3. THE 3-YEAR ZERO-TO-ENTERPRISE PIPELINE

Training that begins in the 7th semester is too late. TheEduCode integrates placement readiness as a continuous, multi-year academic journey, putting your students a full year ahead of rival universities.

YEAR	STAGE	FOCUS AREAS	PLATFORM ROLE
Year 1	Foundation	Core syntax, memory management, basic logic building, introduction to DSA.	Structured problem sets, animated learning PDFs, AI error guidance.
Year 2	Competitive Edge	Medium-to-advanced DSA, algorithmic thinking, complexity analysis.	Timed assessments, efficiency leaderboards, batch tracking.
Year 3	Enterprise Readiness	System-aware DSA, business cost of code, resolving production bugs.	Placement readiness scoring, readiness dashboard for placement cell.
Placement	Capstone	Full-simulation OA rounds mirroring Tier-1 company drives.	High-fidelity proctored exams, final placement readiness roster.

4. THE PRODUCTION-ORIENTED DSA CONTENT DESIGN

Generic platforms teach students *what* an algorithm is. TheEduCode teaches students *why* it matters in a live system, and what breaks when they choose the wrong one.

4.1 Business-Stakes Framing (The 'Why' of DSA)

- **The 504 Timeout (Time Complexity):** An $O(n^2)$ parser causes 4-second delays during a sale, dropping connections. *Task: Optimise to $O(\log n)$ to restore service.*
- **The OOM Crash (Space Complexity):** A worker node crashes because an entire dataset is loaded into memory. *Task: Redesign to $O(n)$ space constraints.*
- **Connection Pool Exhaustion:** An API returns errors due to N+1 database queries. *Task: Restructure logic using Hash Maps to batch the operation.*

4.2 Pedagogical Upgrades

- **Mentor-Validated:** Content is reverse-engineered from current MNC technical rounds.
- **Visual Learning:** Animated PDFs map algorithm behaviour and memory flow step-by-step.
- **Gamified Engagement:** Campus leaderboards, consistency streaks and self analytics drive voluntary practice.

5. TheEduCode PLATFORM ECOSYSTEM

5.1 Student Native Application (The Secure Core)

Built as a native application—not a browser wrapper—giving the platform OS-level control.

- **8 OS Configurations:** Windows 10/11, Ubuntu 22(2), 24, 25(2), and macOS intel and silicon.
- **Modern Compilers:** Enabling modern standards (GCC 14, Java 21, Python 3.12) with support of 50+ total languages.
- **0.5 Mbps Resilience:** Edge-optimised to prevent crashes under high-density campus Wi-Fi load.

5.2 Teacher & Administration Tooling

- **Teacher Desktop App:** Special App to enable screen-sharing for live coding demonstrations and solution access.
- **Admin & Teacher Portals:** Web-based RBAC hubs for NAAC reporting, batch tracking, and problem assignments.
- **Livestream Exam Portal:** WebRTC dual-feed streaming (screen and webcam) with live control of the assessment.

5.3 AI Learning Assistant (Practice Mode)

Explains syntax errors and suggests algorithmic optimisations without revealing the final answer.

Note: This AI layer is entirely disabled during high-stakes exams.

6. SIX-LAYER SECURITY ARCHITECTURE

Under the *Public Examinations Act 2024*, institutions face massive penalties for failing to prevent malpractice. TheEduCode provides legal safe harbour.

LAYER	PROTECTION FOCUS	TECHNICAL MECHANISM
1. Network	Unauthorised Access	Real-time Proxy/VPN detection.
2. Device	Hardware Integrity	VM Detection & Blocking. Bluetooth/peripherals disabled.
3. Application	Interface Security	Binary Lockdown: DevTools, clipboard, screenshot disabled at kernel level.
4. Process	Unauthorised Tools	AI Termination Engine: OS-level scanning instantly kills ChatGPT, AnyDesk, and macro scripts.
5. Proctoring	Human/AI Oversight	AI gaze tracking and LiveKit WebRTC dual-feed streaming.
6. Audit	Forensic Evidence	720p synchronised recording and multi-page forensic PDFs.

7. PLACEMENT ANALYTICS AND INSTITUTIONAL INTELLIGENCE

7.1 The Readiness Roster (For Placement Cells)

The university shouldn't blindly send every student into a Tier-1 interview. The platform provides a data-driven ranking of students by coding efficiency, allowing the placement cell to route its strongest candidates to premium recruiters and protect conversion rates.

7.2 Student-Level Insights

- **Topic-Wise Heatmaps:** Identifies specific weaknesses (e.g., strong in Arrays, weak in Graphs).
- **Attempt-Pattern Analytics:** Tracks compilation attempts to gauge logical clarity vs. trial-and-error dependency.

8. INSTITUTIONAL ROI & STRATEGIC BENEFITS

8.1 Direct Placement Outcomes

- **Higher Salary Packages:** Targeting product-based hiring bars increases average/median packages.
- **PPO Conversions:** "Day-one deployable" students excel in internships, securing full-time offers.
- **Admissions Marketing:** A proprietary, enterprise-grade assessment platform serves as a massive USP for prospective students.

8.2 Operational ROI

METRIC	WITHOUT THEEDUCODE	WITH THEEDUCODE
Faculty Grading Time	~4,960 hours/year spent on manual evaluation.	90% automated — redirected to research.
Human Capital Value	₹24.8 Lakhs/year consumed by routine tasks.	₹19 Lakhs/year reclaimed for the institution.
IT Infrastructure Cost	₹50K–80K/year in local maintenance.	Zero — EduNiketan manages AWS/GCP cloud.

9. WHY TheEduCode - COMPETITIVE DIFFERENTIATION

CAPABILITY	GENERIC PLATFORMS (Scaler, GFG)	TheEduCode ECOSYSTEM
Security	Browser-based — bypassed by screen sharing.	Six-layer OS-level lockdown with AI termination.
Evaluation Depth	Pass/Fail on output correctness only.	Strict Time & Space complexity grading.
Network Suitability	Fail under campus Wi-Fi load spikes.	Optimised for 0.5 Mbps via distributed architecture.
Placement Intel	No institutional visibility.	Readiness Roster & four-year continuous tracking.
Campus Track Record	Unverified at scale in	Proven at LPU.

	campus labs.	
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10. FALL 2026 ROLLOUT ROADMAP

SPRINT	TIMELINE	DELIVERABLE
1: Curriculum	Weeks 1–2	Phase 1 Content: 100+ enterprise-grade production scenarios.
2: Engine Upgrades	Weeks 3–4	Benchmark Engine: Strict Time/Space complexity enforcement.
3: Visual Content	Weeks 5–6	Visual Library: Animated execution models for core concepts.
4: Analytics QA	Weeks 7–8	Placement Dashboard: Real-time capability tracking.

11. PROVEN TRACTION & INSTITUTIONAL VALIDATION

TheEduCode is actively deployed across multiple institutions with consistently exceptional results.

DEPLOYMENT	CONTEXT	RESULT
Lovely Professional University	B.Tech CSE — sustained multi-batch academic and lab assessment cycles.	0 Security Incidents. 99.9% Uptime.
LPU Hackathon	500+ participant competitive event.	The platform sustained full load with zero lag.
LPU University	Live training and lab assessment integrations.	Data integrity and security architecture confirmed.

Performance Metrics:

- Faculty NPS: 91 / 100
- Student NPS: 87 / 100

12. COMMERCIAL OFFERING & TIERED PRICING

TIER	POSITIONING	KEY CAPABILITIES	PRICE (₹ / Student / Sem)
Platinum ★	Full Ecosystem	Secure App + Auto-Grade + Livestream + 30-Day Video + AI + Analytics.	₹349*
Gold	Security-First	Secure App + Auto-Grade + Livestream + AI Tracking (No long-term video).	₹339*
Silver	Audit-Focused	Secure App + Auto-Grade + 30-Day Forensic Video (No Livestream).	₹329*
Base	Lab-Only	Secure App + Auto-Grading (No proctoring or video).	₹319*

* Prices are subject to discussion and negotiation. The figures mentioned in this document are for reference only.

Note: 30% discount applied for subsequent courses by the same cohort.

13. IMPLEMENTATION ROADMAP

PHASE	TIMELINE	ACTIVITY
1. Data Ingestion	Days 1–2	Student/faculty rosters provisioned. Multi-cloud setup completed.
2. Configuration	Days 3–5	Batch mapping. Admin and Teacher portal setup.
3. Training	Days 6–7	Faculty onboarding workshop. Student application distribution.
4. Validation	Day 8	Institution-wide dry-run examination to verify security layers.
5. Go-Live	Day 9	Production ready. Practice and assessments

		commence.
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14. NEXT STEPS

STEP	ACTION	TIMELINE
1. Executive Alignment	A 30-minute demonstration of the platform for university leadership.	Within 5 working days.
2. Pilot Setup	Deployment for a single section to validate ROI and performance.	2 weeks post-demo.
3. Full Deployment	Full-scale rollout for the Fall 2026 semester.	Prior to semester start.

15. ABOUT EDUNIKETAN PRIVATE LIMITED

Eduniketan Private Limited is a specialised EdTech company with a singular institutional mandate: to bridge the gap between what universities teach and what companies actually hire for.

We do not teach syntax. We build engineering mindsets. We do not deliver courses. We deliver career transformations.

Every programme, every question, and every feature on TheEduCode platform is designed with a single governing question: Will this help a student get hired at a great company?

Company	Eduniketan Private Limited
Founders	Souvik Gupta (Founder & Director) Saif Siddique (Co-Founder & Director)
Email	founder.souvik@eduniketanpvtltd.com cofounder.saif@eduniketanpvtltd.com
Phone	+91-62964-89227
Website	www.eduniketanpvtltd.com

Training Platform	www.theeducode.com/dashboard

We look forward to building a long-term academic partnership with your institution — one that directly strengthens your students' placement outcomes and elevates your university's industry reputation.

Warm Regards,

Souvik Gupta & Saif Siddique

Directors | Eduniketan Private Limited

TheEduCode — Enterprise Assessment Division

This proposal is confidential and submitted exclusively for institutional collaboration purposes. All programme details, pricing, and curriculum are subject to finalisation upon mutual discussion. | © 2026 Eduniketan Private Limited. All rights reserved.