

# **PROPOSAL**

## **Commercializing Examination Management System**

**Submitted by: Federal Polytechnic, Ilaro  
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### **1. Introduction**

Every year, academic staff members at Nigeria's colleges, polytechnics and universities, put in endless hours—often late into the night—assembling exam schedules manually, allocating exam rooms, and assigning seat numbers. Even with the greatest of intentions, mistakes happen: students are double booked, halls are packed while others are unoccupied, and inadequacy of the predictable seating arrangements allow malpractice to occur.

The integrity of our educational system and the legitimacy of our academic credentials are in jeopardy, so this is more than simply an administrative hassle. Students are not just frustrated when they enter an exam room and find their seat already taken, or worse, when they find out that their exam schedule conflicts with another course. It undermines their confidence in the entire procedure. Predictable seating patterns also pave the way for malpractice and the gradual deterioration of fairness, which is the cornerstone of meritocracy.

We posed the question, "What if technology could lift this burden?" at the Federal Polytechnic, Ilaro. The Examination Management System (EMS) is the solution; it is a proprietary, intelligent software program that efficiently, fairly, and accurately automates the creation of timetables, the distribution of halls, and the assignment of seats.

The goal of EMS is not to replace humans with machines. It's about relieving our hard-working academic staff of paperwork that is prone to errors so they can concentrate on teaching, mentoring, and maintaining standards. It's about providing all students, from Ilaro to Maiduguri, with the respect that comes with an equitable, open, and orderly testing process. Most significantly, it's about demonstrating that Nigeria produces solutions that uphold our ideals, address our issues, and rebuild confidence in our institutions—not just consuming technology.

In order to commercialise EMS and turn it from a campus success story into a national asset, we are seeking for NASENI's partnership.

## **2. The EMS Solution: An Overview**

EMS is a smart, constraint-aware scheduling algorithm that provides students with real-time, auditable seating information and removes technical ambiguity for examination coordinators, guaranteeing both academic integrity and operational dependability. Developed by our in-house team using innovative, open-source tools, EMS:

- i. Generates schedules that are free of conflicts by examining staff availability, student enrolment, and course workloads
- ii. Using anti-malpractice deductive reasoning, seat numbers are randomly assigned while taking particular requirements into account
- iii. Examination halls are assigned according to accessibility, departmental clustering, and real-time capacity
- iv. Allows students rapid access via a mobile app that will be launched soon

The EMS has already been successfully piloted at our institution, reducing planning time by more than 70% and eliminating scheduling errors totally.

## **3. A Nigerian Solution Ready for National Scale**

Nigeria's road towards digital transformation is at a watershed moment. Smarter, more open academic systems are being demanded by the NBTE and NUC. Still, the majority of institutions use whiteboards, spreadsheets, and guesswork. There are foreign alternatives, but they are costly, poorly designed for our environment, and provide little local assistance.

In contrast, EMS is unique. It was developed, tested, and owned in Nigeria. With the help of NASENI, we can scale it up across the nation at an affordable cost, transforming a local innovation into a national revitalisation instrument.

In order to promote indigenous engineering solutions that address pressing issues, generate employment, and strengthen Nigeria's technological sovereignty, this is a perfect fit with NASENI's mission.

## **4. Our Plan**

Over the next 12 months, we will:

- i. Deploy EMS in five different pilot institutions, such as state, private, and federal schools, to evaluate adaptability and gather feedback
- ii. Provide an intuitive mobile application that allows students to view their exam room and seat number in real time.
- iii. Provide practical workshops and user-friendly materials to institutional staff to train them.
- iv. Provide a viable business plan to ensure that EMS continues to prosper after the funding time.

- v. Organise a nationwide stakeholder workshop to introduce the system to vice chancellors, rectors, provosts, registrars, and regulators.

We aim for adoption, trust, and impacts that last, not just delivery.

## 5. Our Budget

Our budget totals ₦29,247,500, including ₦25,747,500 from NASENI and ₦3,500,000 from our institution.

This includes:

- i. Professional staff (developers, trainers, and project managers) to guarantee consistency and quality
- ii. Safe cloud computing and a mobile application enabling access across the country
- iii. Deployment on-site at five pilot schools, including instruction and travel
- iv. Independent assessment to gauge progress and direct development
- v. A 5% contingency for unforeseen needs

## 6. Our Commitment

The Federal Polytechnic of Ilaro isn't just asking for funding; we're investing with NASENI.

Our ₦3.5 million institutional contribution includes:

- i. Dedicated workspace, fast internet, and computer labs
- ii. Support for key personnel's partial salaries
- iii. Administrative support in full from the Rector's office

It's the official launch of a Nigerian technology that might benefit more than 200 institutions, generate high-skilled employment, and establish Nigeria as a pioneer in innovative education.

## 7. Transformative Impact

By funding EMS, NASENI will not only fund software, but you will:

- i. Restore trust in the examination procedures in Nigeria
- ii. Save hundreds of staff hours every year in the field of education
- iii. Encourage openness and respect for students as they take tests
- iv. Showcase homegrown excellence on a continental stage
- v. Encourage the growth of a new market for locally produced EdTech products.

Examination chaos is resolved by this engineering. Technology that ensures all students have a fair seat. Nigerian solutions at the centre of our educational system through innovation.

## 8. Conclusion

We are on the verge of something extraordinary—an opportunity to swap out confusion for clarity, uncertainty for confidence, and foreign solutions for Nigerian creativity.

AEMS is going to be more than just a system with your help. It's going to become the norm.

We modestly request for ₦25,747,500 from NASENI in order to accomplish this goal. We pledge accountability, quality, and influence at every stage in exchange.

We are grateful that you have faith in Nigerian solutions, created by Nigerians for Nigeria.

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