CASE STUDY

Maulana Abul Kalam Azad University OF Technology, West Bengal
formerly Known as West Bengal University of Technology

How MAKAUT Transformed its entire Admission Process & Internal examinations with the help of Learning Spiral?



ABOUT THE CLIENT

Maulana Abul Kalam Azad University of Technology, West Bengal is one of the largest Technical Universities in our country with 1,40,000+ students. A 20+ year old institution and the only technical university in the state of West Bengal provides degrees in engineering, management and other professional areas through affiliated institutions and in-house departments.
Selects more than 40,000 students per year through competitive exams i.e. WBJEE and AIEEE.

CLIENT'S VISION

Transform the process of student services from admission to internal examinations
Focus on replacing paper and manual processes into web applications and automated self-service.
Adopt Open Source Technology on a Design-Build-Operate-Transfer model.

CHALLENGES FACED

Full Manual processes leading to delays & chances of errors
Makut conducted internal examinations through manual process Unfortunately, the manual or low automation systems were prone to errors that lead to delays & a time-consuming process.

Lack of Transparency
We keep hearing about flaws in evaluation, re-evaluation in manual requests due to lack of transparency while Online process is to usher in a change in the overall examination system in the country as students are bound to benefit from the transparency it offers.

Wastage of Paper, money and time
In educational institutions a lot of paper gets wasted . The use of papers in universities can be reduced by conducting semester and regular examination through an online process instead of manual procedures to fill enrollment admission payments forms for a particular year.

Were Not aligned to expectations from a modern university by today's students
After high school students have Greater Expectations of modern facilities that save time and energy and so the Manual internal examination process was not meeting the expectations of students.

Enormous variety of semester and regular examination
100+ courses, 100+ examinations every semester or Regular Exams

Large volume of campus students
Volume: 1,40,000+ on-campus students appear for semester exams

Data migration :
Old manual data to be converted into one integrated system

PROPOSED STRATEGY FOR THE SOLUTION

- Makaut floated an RFP for a suitable vendor to provide a solution on a SaaS model (Software as a Service).
- Competitive bids were to be evaluated on a Techno-commercial QCBS model to select a suitable partner.
- Long term SLA was designed to enable change management over a period of years.
- Alignment of interests of vendor to that of a client was focused upon by adopting a recurring per student price model over one-time procurement price in the RFP.
- Open source technology was preferred to mitigate closed source issues and reduce costs.
- The vendor was awarded the contract in April 2018 based on the process as a suitable execution partner.

IMPLEMENTED SOLUTION

- Dynamic application designed with the ability to handle the variety.
- AWS Cloud Server architecture adopted instead of local servers.
- All application/request processes made fully online.
- Old data migrated through ETL Tools.
- Payment collection made totally online.
- Staff training for all internal stakeholder.
- UI of online application designed and tested for extreme ease of use.
- On-campus computer-based Help Desk established for student hand holding.
- Reporting server designed for dashboard and TR variety.
- The on-site team deployed for hand-holding & staff training.
- Online exam schedule
- Admit card
- Collection of Admit Card.
- Distribution of Question Paper Digitally.
- Onscreen Marking (Theory /Practical /Sessional).
- Collection of booklets on a daily basis during an examination period with a complete logistics management through the integrated system having QR & barcode facility such us (dispatch letter, absentee report, collection of booklet monitoring, online tracking of the collection)
- Result processing
- Preparation of TR and Mark sheet
- Web-based Phd section
- Grievance redressal
- Multiple MIS
- Live monitoring

KEY ACHIEVEMENTS

- Automated Processes: Manual processes were completely removed
- Enrollment/ Exam form attendance: 100% online exam timeline reduced.
- Successfully introduced the question bank and QPDS system.
- Environment-friendly: Paperless process leading to reduced costs and emissions.
- Secured Data: Disaster management put in place for critical academic data.
- Complete control over logistics digitally
- Microchip/ Tearproof/ NFC rank card & degree implemented.

ROAD-MAP FOR THE FUTURE

- Offline based entrance examinations to be made online.
- Internal formative assessments to have online testing.
- Confidential question paper design and question management for both internal and entrance exams to be centralized.
- Digital evaluation to be introduced for on-campus assessments.
- Complete Fees management system to be made online.
- Learning Resource storage to be introduced to track student engagements.
- Learning Management systems to be introduced for lifelong learning initiatives in professional courses.

APPRECIATION

BY THE CLIENT

It is hereby declare that **M/s. Learning Spiral Pvt. Ltd.** has been entrusted with the assignment of confidential work (Pre & Post examination work) for the regular semester examination for Even 2018 to Even 2019. They have performed their task as per specification of the university for more than 1.40 lacs students per semester.

We wish them all the best for their future endeavours.

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Learning Spiral

ABOUT THE PRODUCT

Smart Exam

University Examination Management System



Every year more than a million students get the marks they deserve thanks to SmartExam!

1. Enrollment

- Online application & payments
- Online verification by college & then University
- Custom Enrollment numbers
- Print enrollment registers

2. Pre-Exam

- Online forms & payments
- Auto eligibility checking
- Centre & roll no allocation
- Admit Cards & attendance sheets
- Print Roll lists, Question paper counts, Sitting plans etc.

3. Post-Exam

- Set course Schema
- Generate results as per schema
- Print TR/Mark sheets
- Upload to National Academic Depository
- UFM handling/Reporting
- Declare results online/SMS/Email
- Custom print ready reports

4. Evaluation

- Online marks capturing
- Digital evaluation
- OMR/Double Entry import
- Dummy numbering

5. Confidential

- Appoint paper setter/hecker
- Automatic reminders
- Measure performance

6. Communication

- Emails/SMS broadcast
- Auto phone call
- Chat/Helpdesk

7. Mobile Ready

- Custom mobile app
- Applicant interface
- Fully mobile optimised

8. Reports

- Custom & standard reports
- Export to excel/pdf

9. Finance & Store

- Integrate remuneration of valuers, papers setters etc
- Online payments & split payments between college & university
- Manage asset like answer booklet, stationery etc.

ABOUT LEARNING SPIRAL

Learning Spiral understands assessments and applicant management like no other organization. We routinely deliver more than a million assessments through different modes in a demanding and high stake environment. Examinations are an inevitable part of the educational ecosystem. With evolving technologies, a globalized world, and an increasingly competitive educational landscape, it is necessary to keep up with the times.

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