



Practical Insights

How leading Higher education institutions transformed academic operations with Automation, AI meeting their Business requirements?

- ◇ *Course bidding*
- ◇ *Timetabling Automation*
- ◇ *Career Services Operations*
- ◇ *Student exchange workflows*
- ◇ *Custom AI Transformations*


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Automation that made a Difference

TAPMI Bengaluru's Program Office used to spend weeks building each timetable in spreadsheets and email threads. In 2025 TAPMI reached out to EDTEX for automating Timetabling process and gave us two months to get a working solution Live.

What we built for TAPMI is now a core part of the Registro platform. It takes multiple data inputs and solves against both hard and soft constraints: faculty teaching slots are used efficiently across programmes, each programme tracks its own academic calendar, reschedules take a click, and every schedule follows TAPMI's own program policies.

ACCREDITATION

AACSB · AMBA

PARENT GROUP

**Manipal Academy of
Higher Education**

SOLUTION

**Registro Timetabling
Automation Product**

SCOPE

**Under Graduate and
Graduate
Programmes**

800+

 Sessions scheduled per
term

06

Programmes

> 95%

Manual effort reduction

100%

 Visibility into clashes and
slots and key timetabling
operations insights

01

Institution Profile

UNIVERSITY OVERVIEW · SIZE, PROGRAMMES, EXISTING ECOSYSTEM

TAPMI Bengaluru is accredited by AACSB and AMBA. It offer undergraduate, postgraduate and executive management programmes to over 1000 students.

02

Business Challenge

EXISTING MANUAL PROCESS · OPERATIONAL INEFFICIENCIES · POOR VISIBILITY

- Academic Operations ran on Excel and email threads
- Student and faculty clashes were validated by hand with less visibility
- Every manual schedule change triggered trial-and-error rework
- Hard and Soft Constraints made timetabling validation error-prone
- The Scheduling Knowledge sat with a few experienced administrators
- Reschedules created delays publishing final timetable changes

03

How did EDTEX automate the timetabling process

EVALUATION CRITERIA · SELECTION RATIONALE

- ✓ **Studied the process.** Mapped how timetables were built and mined past ones for bottlenecks.
- ✓ **Codified the rules.** Hard constraints that can never break, soft preferences the solver optimises for.
- ✓ **Proved it on a pilot.** Ran real data through the Registro engine.
- ✓ **Built the tailored solver.** Extended Registro to TAPMI's rules and brought the solution LIVE

Solution Delivered

PRODUCT IMPLEMENTED (REGISTRO TMS) · IMPLEMENTATION APPROACH · INTEGRATIONS & TRAINING

PRODUCT IMPLEMENTED

- The constraint-based scheduling engine has been activated.
- It manages rescheduling and takes faculty slot preferences into account.
- It automatically validates conflicts between students and faculty.
- Institutional policies and rules have been configured.

IMPLEMENTATION APPROACH

- Centralized timetable management is available for all programs.
- Support for faculty preferences, workload tracking, and leave management is included.
- An interface is provided for configuring timetabling policies.
- Workflows for class rescheduling are supported.

INTEGRATIONS & TRAINING

- Notifications are triggered through integrations with Email, Google Calendar, and Microsoft Calendar. ***There is potential for WhatsApp-based notifications and MCP workflows.***
- User training, along with user guides, is part of the two-week onboarding process.

Business Outcomes

OPERATIONAL EFFICIENCY · REDUCED MANUAL EFFORT · STAKEHOLDER EXPERIENCE · PROCESS TRANSPARENCY

OPERATIONAL EFFICIENCY

Quick timetable creation with full visibility into clashes, faculty workload, rescheduling, and classroom use.

REDUCED MANUAL EFFORT

Timetabling generation and management efforts decrease by over 95%. True Autopilot mode.

STAKEHOLDER EXPERIENCE

Email and Calendar integrations provided quick schedule updates for faculty and students.

PROCESS TRANSPARENCY

Real-time visibility is achieved with reports, audit logs, and notifications.

Before vs After

DELTA ACROSS SIX OPERATIONAL DIMENSIONS

DIMENSION	BEFORE REGISTRO	AFTER REGISTRO
Workflows	Excel sheets & email-based scheduling	Automated scheduling workflows
Conflict Validation	Manual validation is required	Automatic conflict, policy validations
Change Management	Manual revisions consumed effort	Insights-driven schedule modifications
Visibility	Limited visibility - required significant Manual effort for change management	Real-time insights & downloadable reports
Communication	Manual updates over email, WhatsApp	Automated notifications on email and Google / Microsoft calendar Apps
Administrative Effort	High manual dependency on Academic Operations Management	Streamlined academic operations with very less manual intervention

Customer Voice

TESTIMONIAL

EDTEX provided a tailored timetable scheduling solution with a quick implementation timeline, greatly minimizing manual effort and errors while efficiently managing complex multi-programme needs.

Prof. T. S. Hariharan — Chairperson, Academic Office, TAPMI Bengaluru



Do you want to create
10X Outcomes?