

## Q1. Three User Goals

1. **Efficient course Navigation** (clear navigation and filtering).
2. **Understand prerequisites easily** (transparent prerequisites display).
3. **Error free registration** (simple, reliable registration workflow).

## Q2. GQM Approach (Example for Goal #1)

- **Goal:** Efficient course navigation.
- **Key Question:** How easily and quickly can students locate and select their desired courses?
- **Metric(s):**
  - Average time taken to find a course (seconds/minutes).
  - Number of clicks or steps required to reach the course page.
  - Success rate of students locating the right course on first attempt.

## Q3. Solution Design Aligned with Students' Mental Model

- **Proposed Solution:**
  - **Dashboard-based interface:** Display all relevant information (available courses, prerequisites, schedule) in one place.
  - **Search + Filter system:** Allow students to search by course name, department, and time slot.
  - **Visual indicators:** Show prerequisites as icons or pop-up tooltips next to course names.
  - **Progressive registration steps:** A step-by-step guided process (like online shopping checkout).
- **Alignment with Students' Expectations:**
  - Students think in terms of “which courses fit my plan” rather than “what the system stores.”
  - Mirrors familiar apps (shopping, booking), reducing learning effort.
  - Offers transparency and instant feedback on prerequisites and registration status.

## Q4. Domain of the Project

- **Domain:** Educational Technology / University Student Information Systems (specifically Course Registration Systems).
  - **Importance of Recognizing the Domain:**
    - Helps identify industry standards and usability best practices.
    - Ensures compliance with academic policies and registration rules.
    - Clarifies stakeholders (students, faculty, registrar office) and their workflows.
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## Q5. Three Ways to Research User Requirements

<b>Method</b>	<b>Why Suitable</b>
<b>Online Surveys/Questionnaires</b>	Quickly gather feedback from a large student population about problems and desired features.
<b>Focus Groups</b>	Allows deeper discussions with small groups of students to explore pain points and expectations.
<b>Usability Testing on Current Portal</b>	Observing students using the existing portal highlights real-time frustrations and critical usability issues.