✅ Courses Module (Subject Master Page) – Final UI Specification

This page consists of **three tabs**: **Courses**, **Groups**, and **Subjects**. Each tab supports specific form inputs and functional behavior for managing academic data.

◆ 1. Courses Tab

Used to define and manage courses.

Fields:

- **Course Code**

  - Label: "Course Code"

  - Type: Text Input (e.g., CS101)

  - Validation: Required, unique

- **Course Name**

  - Label: "Course Name"

  - Type: Text Input (e.g., Computer Science)

  - Validation: Required

- **Number of Semesters**

  - Label: "Number of Semesters"

  - Type: Numeric Input

  - Validation: Required, positive number

- **Save Button**

○ Label: "Save"

○ Style: Prominent (blue or green), rounded corners

○ Action: Saves the course details

◆ 2. Groups Tab

Used to define academic groups under a selected course.

Fields:

- **Course Selection**

  ○ Label: "Select Course"

  ○ Type: Dropdown (Format: Course Code - Course Name)

  ○ Source: Courses tab data

- **Group Code**

  ○ Label: "Group Code"

  ○ Type: Text Input (e.g., CS101-01)

  ○ Validation: Required, unique

- **Group Name**

  ○ Label: "Group Name"

  ○ Type: Text Input (e.g., Group A)

  ○ Validation: Required

- **Number of Semesters**

  ○ Label: "Number of Semesters"

- Type: Dropdown or Editable Numeric Input

- Default: Pulled from the selected course

- Editable: Yes

- **Save Button**

  - Label: "Save"

  - Style: Consistent with Courses tab

◆ 3. Subjects Tab

Used to define subject (paper) information under specific course + group + semester.

Fields:

- **Course Selection**

  - Label: "Select Course"

  - Type: Dropdown (Format: Course Code - Course Name)

  - Source: Courses tab data

- **Group Selection**

  - Label: "Select Group"

  - Type: Dropdown (Format: Group Code - Group Name)

  - Source: Groups under selected course

- **Semester Selection**

  - Label: "Select Semester"

  - Type: Dropdown (1 to N based on selected course/group)

- **Paper Code**

  - Label: "Paper Code"

  - Type: Text Input (e.g., CS101-SEM1-P1)

  - Validation: Required, unique

- **Paper Name**

  - Label: "Paper Name"

  - Type: Text Input

- **Is Elective**

  - Label: "Is Elective?"

  - Type: Checkbox (Yes if checked, No if unchecked)

- **Paper Type**

  - Label: "Paper Type"

  - Type: Dropdown (Options: Theory, Practical, Project)

- **Credits**

  - Label: "Credits"

  - Type: Numeric Input

- **Internal**

  - Label: "Internal Marks"

  - Two Numeric Inputs:

    - Marks Obtained

    - Out of

- **Theory**

  - Label: `"Theory Marks"`

  - Two Numeric Inputs:

    - Marks Obtained

    - Out of

- **Total**

  - Label: `"Total Marks"`

  - Two Numeric Inputs:

    - Marks Obtained

    - Out of

- **Save and Cancel Buttons**

  - Labels: `"Save"` and `"Cancel"`

  - Actions:

    - `Save`: Commits subject to DB

    - `Cancel`: Clears form

✅ Post-Save Behavior in Subjects Tab

After clicking **Save**:

1. Show a confirmation (toast/snackbar):
   ➤ `"Subject saved successfully"`

2. Refresh and **display a list** of saved subjects for the selected Course, Group, and Semester.

📋 Saved Subjects List Display

Location:

Below the form in the **Subjects Tab**

Table Format Example:

Paper Code	Paper Name	Elective	Type	Credits	Internal	Theory	Total	Actions
CS101-PROG1	Intro to Programming	No	Theory	4	30 / 50	70 / 100	100 / 150	Edit / Delete
CS101-LAB1	Programming Lab	Yes	Practical	2	25 / 30	-	25 / 30	Edit / Delete

Actions:

- **Edit:** Fills the form with existing values

- **Delete:** Deletes entry (confirmation required)