

## ✓ Courses Module (Subject Master Page) – Final UI Specification

This page consists of **four tabs**: **Courses**, **Groups**, **Subjects Bank**, and **Course & Group Assignment**. Each tab supports specific form inputs and behavior for managing academic data.

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### ◆ 1. Courses Tab

**Purpose:** Define and manage academic courses.

**Fields:**

- **Batch**
  - Label: *"Batch Name"*
  - Type: Text Input (e.g., C25, A25)
  - Validation: Required, Unique
- **Course Code**
  - Label: *"Course Code"*
  - Type: Text Input (e.g., BA101)
  - Validation: Required, Unique
- **Course Name**
  - Label: *"Course Name"*
  - Type: Text Input (e.g., B.Com, BA, B.Sc)
  - Validation: Required
- **Number of Semesters**
  - Label: *"Number of Semesters"*

- Type: Numeric Input
- Validation: Required, Positive number
- **Fee**
  - Label: *"Total Fee"*
  - Type: Text Input
  - Validation: Required, Unique

### Save Button:

- Label: *"Save"*
- Style: Prominent (Blue or Green), Rounded Corners
- Action: Saves the course details

#### Subject Master Page - Courses Module

[COURSES](#) [GROUPS](#) [SUBJECTS BANK](#) [COURSE & GROUP ASSIGNMENT](#)

Add New Course

Batch Name

Course Code

Course Name

Number of Semesters

Total Fee

**SAVE**

 Courses List

C25 - MCA101 - MCA   Semesters: 6   Fee: 50000
A25 - MBA101 - MBA   Semesters: 4   Fee: 60000
A24 - BCA101 - BCA   Semesters: 6   Fee: 40000
C24 - MSC101 - M.Sc. Computer Science   Semesters: 4   Fee: 45000

## ◆ 2. Groups Tab

**Purpose:** Define academic groups under a selected course.

**Fields:**

- **Batch**

- Label: *"Batch Name"*
- Type: Dropdown (e.g., C25, A25)
- Validation: Required

- **Course Selection**

- Label: *"Select Course"*
- Type: Dropdown (Format: Course Code - Course Name)
- Source: Data from Courses Tab

- **Group Code**

- Label: *"Group Code"*
- Type: Text Input (e.g., BA101-01)
- 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 + Editable Numeric Input
- Default: Pulled from selected course
- Editable: Yes

- **Fee**

- Label: *"Total Fee"*
- Type: Text Input (from course tab) + Editable Numeric Input
- Validation: Required, Unique
- Editable: Yes

### Save Button:

- Label: *"Save"*
- Style: Consistent with Courses Tab

#### Subject Master Page - Courses Module

COURSES
GROUPS
SUBJECTS BANK
COURSE & GROUP ASSIGNMENT

Add New Group

Batch Name

Select Course

Group Code

Group Name

Number of Semesters

Total Fee

Save

Groups List

C25	MCA101-01   Group A   Semesters:   Fee: 120000
C25	MCA101-02   Group B   Semesters:   Fee: 122000
A25	MBA101-01   Group Alpha   Semesters:   Fee: 150000
A25	MBA101-02   Group Beta   Semesters:   Fee: 155000
A24	BCA101-01   Group X   Semesters:   Fee: 100000
C24	MSC101-01   Group Gamma   Semesters:   Fee: 110000

### ◆ 3. Subjects Bank Tab

**Purpose:** Define subjects (papers) under specific Course + Group + Semester.

## ● Form Fields

### 1. Batch Selection

- **Label:** "Select Batch" (*from Courses Tab*)
- **Type:** Dropdown
- **Source:** Courses Tab

## 2. Semester Selection

- **Label:** "Select Semester"
- **Type:** Dropdown (*1 to N based on selected Course/Group*)

## 3. Paper Code

- **Label:** "Paper Code"
- **Type:** Text Input (*e.g., CS101-SEM1-P1*)
- **Validation:** Required, Unique

## 4. Paper Name

- **Label:** "Paper Name"
- **Type:** Text Input

## 5. Is Elective?

- **Label:** "Is Elective?"
- **Type:** Checkbox (*Yes if checked, No if unchecked*)

## 6. Paper Type

- **Label:** "Paper Type"
- **Type:** Dropdown (*Options: Theory, Practical, Project*)

## 7. Credits

- **Label:** "Credits"
  - **Type:** Numeric Input
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## **Marks Section (Auto-Calculated Fields)**

### **8. Internal Marks 1**

- **Label:** "Internal Marks 1"
- **Type:** Numeric Input

### **9. Internal Marks 2**

- **Label:** "Internal Marks 2"
- **Type:** Numeric Input

### **10. Total Internal Marks**

- **Label:** "Total Internal Marks"
- **Type:** Read-Only Field
- **Formula:** Internal Marks 1 + Internal Marks 2 (*auto-calculated*)

### **11. Theory Marks**

- **Label:** "Theory Marks"
- **Type:** Two Numeric Inputs:
  - **Marks Obtained**
  - **Out of**

### **12. Total Marks**

- **Label:** "Total Marks"
  - **Type:** Read-Only Field
  - **Formula:** Equal to **Total Internal Marks** (*auto-filled*)
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### **Actions**

#### **Save**

- Commits subject data to the database

#### **Cancel**

- Clears the form
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### **Post-Save Behavior**

After clicking **Save**:

- Show confirmation: **"Subject saved successfully"** (*Toast/Snackbar*)
  - Refresh and display the list of saved subjects for the selected **Course + Group + Semester**
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### **Saved Subjects List Display**

**Location:** Below the form in the Subjects Tab

**Format:** Table

Paper Code	Paper Name	Actions
CS101-PROG 1	Intro to Programming	Edit / Delete

CS101-LAB1      Programming Lab      Edit / Delete

**Actions:**

- **Edit:** Prefills the form with existing values
- **Delete:** Deletes the entry (confirmation required)

Subject Master Page - Courses Module

COURSES   GROUPS   SUBJECTS BANK   COURSE & GROUP ASSIGNMENT

**Add New Subject**

Select Batch (Course)

Select Group

Select Semester

Paper Code

Paper Name

☐ Is Elective?

Paper Type

Credits

Internal Marks - 1

Internal Marks - 2

Total Internal Marks

Theory Marks

Total Marks (Auto-calculated)

[Add Subject](#)   [CLEAR](#)

Paper Code	Paper Name	Actions
CS101-SEM1-P1	Introduction to Programming	<a href="#">EDIT</a> <a href="#">DELETE</a>
CS101-SEM1-P2	Programming Lab	<a href="#">EDIT</a> <a href="#">DELETE</a>
MBA101-SEM1-P1	Business Management Fundamentals	<a href="#">EDIT</a> <a href="#">DELETE</a>
MBA101-SEM1-P2	Business Law	<a href="#">EDIT</a> <a href="#">DELETE</a>
BCA101-SEM2-P1	Web Development Basics	<a href="#">EDIT</a> <a href="#">DELETE</a>
MSC101-SEM1-P1	Advanced Algorithms	<a href="#">EDIT</a> <a href="#">DELETE</a>
MSC101-SEM1-P2	Research Methodology	<a href="#">EDIT</a> <a href="#">DELETE</a>

◆ **4. Course and Group Assignment Tab**

▼ **1. Filters (Top Section)**

Label	Input Type	Description
Batch	Dropdown	e.g., A25, C25 (Dynamic)
Course	Dropdown	e.g., B.Com, B.Sc. CS, B.A. Pol. Sci
Group	Dropdown	e.g., HEP, MPC, MATHS





Semester Dropdown Values 1 to 6 (Dynamic)

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## 2. Subject Bank

- **Title:** Subject Bank
- **Layout:** List (Dynamic based on Batch and Semester)
- **Selection:** Multiple Select using Checkboxes

### Columns:

- ☒ Select (Checkbox)
-  Paper Code
-  Paper Name

### Example:

less

CopyEdit

[✓] 401 | Business Taxation

[ ] 402 | Cost Accounting

[✓] 403 | Business Law

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## 3. Selected Subjects List

- **Title:** Selected Subjects
- **Features:**
  - Displays selected subjects
  - Supports reordering (drag-and-drop or arrow buttons)
  - Option to remove a subject

**Layout:** Sortable list

**Example:**

CopyEdit

■ 401 | Business Taxation




■ 403 | Business Law



("■" is the drag handle)

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#### 4. Actions

 **Save** – Finalizes the selection and order for:

- Selected Batch
- Course
- Group

- Semester

### Subject Master Page - Courses Module

COURSES   GROUPS   SUBJECTS BANK   COURSE & GROUP ASSIGNMENT

#### Course & Group Subject Assignment

Batch:  Course:  Group:  Semester:

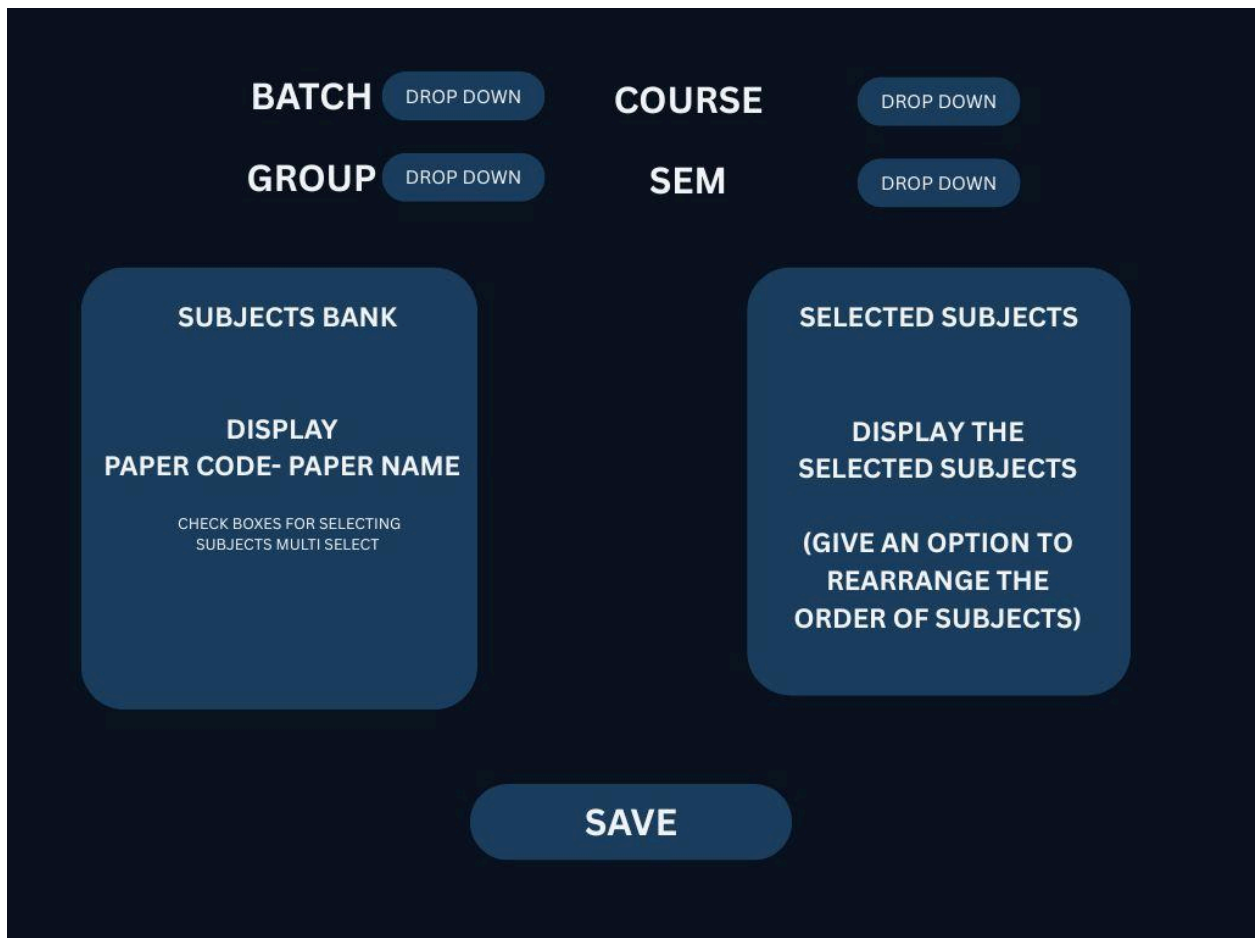
##### Subject Bank

- ☒ MBA101-SEM1-P1 | Business Management Fundamentals
- ☒ MBA101-SEM1-P2 | Business Law

##### Selected Subjects

-  MBA101-SEM1-P1 | Business Management Fundamentals
-  MBA101-SEM1-P2 | Business Law

SAVE SUBJECTS



## ✓ User Flow Summary

1. Admin selects: Batch, Course, Group, Semester
2. Subject Bank loads based on the selection

3. Admin selects multiple subjects using checkboxes
4. Selected subjects appear in a reorderable list
5. Admin can rearrange and remove subjects as needed
6. Admin clicks **Save** to store the mapping