# Title: Subject-Paper Mapping Workflow for Multi-Context Academic Structures

#### **Create Master List for the following options (with option of Edit, Add & Delete under each of these Heads):**

* Stream
* Course Name
* Course Type
* Course Level
* Affiliation Type
* Regulation Type

#### **Define Program-Course**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Stream  *(Dropdown from Master)* | Course Name  *(Dropdown from Master)* | Course Type  *(Textbox)* | Course Level  *(Dropdown from Master)* | Duration  *(Textbox field allowing only numeric value)* | Total Semester  *(Textbox field allowing only numeric value)* | Affiliated To  *(Dropdown from Master)* | Regulation Type  *(Dropdown from Master)* | Action  *(Create Buttons)* |
| Arts | B.A. English | (H) | Undergraduate | 4 YEARS | 8 | CALCUTTA UNIVERSITY | CCF | [Edit] [Add] [Delete] |
| Science | B.Sc. Mathematics | (H) | Undergraduate | 4 YEARS | 8 | CALCUTTA UNIVERSITY | CCF | [Edit] [Add] [Delete] |
| **Save Close** | | | | | | | | |

**Notes:**

1. The system must Implement validation checks before saving **identical values** to prevent duplication.
2. Add an “**Archive**” option in case of discontinuing a course/program. Links of students, subjects or similar data/information must also be automatically archived, without affecting the existing database.

#### **Subject Master Upload & Management Functionality**

1. **Bulk Upload (CSV/Excel Support)**

* Provide an option to **upload a CSV or Excel file** containing multiple subject entries at once.
* The file should support the following columns:
  + **Subject Name** (required)
  + **Subject Code** (optional — if blank, allow system to auto-generate)
* On upload:
  + System must **validate for duplicates** (both within the file and against existing database entries).
  + If a **duplicate Subject Name or Code** is found, show an error message – “One or more subject being uploaded already exists. Please remove the duplicate entries and upload the file again.”

1. **Manual Add Option**

* Include a form to **manually add single subject entries** with:
  + **Subject Name** (text field)
  + **Subject Code** (optional; if left blank, system auto-generates)
* On save:
  + Validate that the Subject Name and Code are **not already present** in the system.
  + Disallow submission if duplication is detected.

1. **Optional Enhancements**

* Provide a **template file** for download to ensure the correct format during upload.
* Include a **"Download All Subjects"** button to export the current Subject Master as Excel/CSV.

#### **Subject Category Table**

|  |  |  |
| --- | --- | --- |
| **Subject Category Name** | **Subject Category Code** | **Action** |
| Skill Enhancement Course | SEC | [Edit] [Delete] |
| Minor | MN | [Edit][Delete] |
| [+ Add] | | |

**Functionality Requirements:**

1. **Add New Category**
   * Clicking [+ Add] should a row to input:
     + **Subject Category Name**
     + **Subject Category Code**
   * System must check for **duplicate names and codes** before saving.
2. **Edit**
   * Clicking [Edit] should allow modification of either the name or code.
   * Apply **duplicate check** here as well.
3. **Delete**
   * Clicking [Delete] should prompt a confirmation.
   * Prevent deletion if the category is already mapped to subjects or papers.
4. **Validation Rules**
   * Both **Subject Category Name** and **Code** must be unique.
   * Code should be short (e.g., 2–5 characters), uppercase.

#### **Subject Paper Mapping Table**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SUBJECT PAPER MAPPING** | | | | | | | | | | | | | | | | | | |
| Subject (Dropdown)  (ex. English) | | Affiliation (Dropdown)  (ex. CU / BGU) | | Regulation Type (Dropdown)  (ex. CCF/CBCS) | | | A.Y (Dropdown)  (ex. 2025-26) | | |  | | | | | | | | |
| ADD REMOVE | | | | | | | | | | | | | | | | | |  |
| Subject Type  (Dropdown) | Applicable Course  (Dropdown) | | Semester  (Dropdown) | | Paper Name  (Text field) | Paper Code  (Text field) | Is Mandatory | Paper Component & Marks | | | | | | | | | | Paper ID  (auto generated) |
| TH | | TU | | PR | | VIVA | | Project | |
| Marks | Credit | Marks | Credit | Marks | Credit | Marks | Credit | Marks | Credit |
| DSCC | B.A. English (H) | | Sem I | | Academic Writing | EGNM-DSCC-1 | Checkbox | 75 | 3 | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| SEC | B.A. English (H) | | Sem I | | Business Writing | EGNM-SEC-1 | Checkbox | 100 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| MN | B.Sc. Mathematics (H), B.A. History (H) | | Sem I | | C. English | MEGN-MN-1 | Checkbox | 75 | 3 | 0 | 0 | 25 | 1 | 0 | 0 | 0 | 0 |  |
| Please Note:   1. The options in the “Subject” dropdown will be populated from the “Subject Master Table”. 2. The 'Academic Year' dropdown will initially include relevant options such as '2025–26'. Please ensure there is a provision in the admin panel to add, edit, or manage academic year options as needed. 3. After completing all the required selections, clicking on the 'Add' button should insert a new row in the table where paper names and related information can be entered. To delete any existing row, the 'Remove' button should be used. Deletion should be **restricted or warned** if the paper is already mapped/used. 4. The 'Subject Type' dropdown will be populated from the “Subject Category Table”. 5. Applicable Course to have a Multi-select Dropdown. Admin should be able to **select one or more courses** to associate with a single paper. This enables **cross-program paper mapping** (e.g., one paper used in both B.Sc. Mathematics and B.A. History). 6. Semester - This field will be a **multi-select dropdown**. The admin can select **one or more semesters** during which the paper is applicable. The dropdown options should list all possible semesters relevant to the selected courses (e.g., Sem I to Sem VIII). Selecting multiple semesters allows mapping the same paper across different semesters for the chosen courses. 7. Is Mandatory (Checkbox) - A **checkbox** indicating whether the paper is compulsory for students in the selected course(s) and semester(s). When **checked**, the paper must be taken by all students in the mapped course(s) for that semester(s). When **unchecked**, the paper is optional or elective. 8. Course Component & Marks - This section breaks down the paper’s evaluation into different components, each having **Marks** and **Credit** fields. Marks fields accept numeric values. Components not applicable to a paper should be set to zero. | | | | | | | | | | | | | | | | | | |