**Functional Requirements**

**Module 1: Registration and Login**

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| **RN** | **Description** | **Comments** |
| FR1 | A login facility for authentication and enabling only authorized access to the system.   * User needs to provide username and password for verification, if they are valid then the user will be redirected to the respective dashboard otherwise it will display an invalid credentials message. | Login form |
| FR2 | System shall provide an interface to admin for registering faculties.  Admin can register faculties by providing following details:  Full name, Email, Contact number, Profile Image, Gender.  The password for the user registered will be generated and mailed to the user once the registration is successful. | Registration form |
| FR3 | System will provide an interface for changing password where user can change their passwords when needed. | Change password |
| FR4 | System shall provide a facility for recovering the password for the users who has forgotten their password.  When user will request for a new password an OTP will be mailed to the user’s mail which is used for login and user’s verification. | Login form  Forgot password |
| FR5 | All registered users shall be able to maintain their profile.   * Enable a registered user to update his profile which includes Full name, contact number, gender and profile picture. * Enable registered users to view their profile. | User Profile |

**Module 2: Manage Subjects**

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| **RN** | **Description** | **Comments** |
| FR6 | The admin shall be able to add subjects by adding following details:  Subject code, Subject name, Effective year, Syllabus file document, Syllabus file pdf.   * Theory credit, Theory hours. * Theory marks (internal), Theory marks (external). * Practical credit, Practical hours. * Practical CIE. * Practical marks (internal), Practical marks (external). * When the subject is based on theory, none of the practical details would be allowed to be configured by admin. * When the subject is based on practical, none of the theory details would be allowed to be configured by admin. * When the subject is based on theory and practical none of the details would be allowed to be null when configured by admin.      * When the subject is practical, only one of the detail from Practical CIE or Practical (internal + external) would be allowed to configure. * When choosing syllabus file one file must be a word file and other one must be a pdf file. * The existence of the subject will be verified with following details:   subject code , subject name and effective year, if subjects exists it can be configured again | Add Subjects |
| FR7 | The admin will be able to view, update and delete the subjects. | View Subjects |

**Module 3: Configure Syllabus**

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| **RN** | **Description** | **Comments** |
| FR8 | The admin shall be able to configure syllabus for every semester by adding following details:   * Academic Year, Semester, Programme, published- on, Subject, Elective, Elective group. * The subjects which were configured last year for a particular semester will be displayed on the top. * All the newly added subjects will be displayed separately. * Final list of the configured syllabus will be displayed before final configuration. | Configure Syllabus |
| FR9 | Elective groups and elective subjects will be managed according to the configuration done by admin, all elective subjects selected must be of same credits.  Configuration of different elective groups for a single semester shall be done , for a single semester none of the elective group may contain similar subjects as other. | Configure Elective |
| FR10 | Syllabus will be configured according to the different programmes in institute, system will also manage the details regarding the subjects which are same for different programmes. | Configure Program |

**Module 4: Manage Syllabus designing**

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| **RN** | **Description** | **Comments** |
| FR11 | The admin shall be able to assign a subject to different faculties for designing the syllabus, also admin will choose a leader among those faculties. | Assign Subject |
| FR12 | The assigned leader by admin can upload the document file for the syllabus once designed. | Upload syllabus |
| FR13 | The Director can view and verify the uploaded syllabus by faculty, if director approves the syllabus then admin can publish the syllabus otherwise the faculty has to redesign and re-upload the syllabus. | Verify Syllabus |
| FR14 | Once syllabus is published all the other users can view it. | View Syllabus |

**Module 5: TES Generation**

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| **RN** | **Description** | **Comments** |
| FR15 | The admin shall be able to generate different TES according to the requirement.   * Generate TES for academic-year subject wise. * Generate TES according to different semesters subject wise. * Generate TES for subjects according to the term (winter, summer) on the basis of subject. * Generate TES for subjects according to the academic-year and semester * Generate TES for subjects according to the academic-year and Term. | Generate TES |
| FR16 | The generated TES can be downloaded and viewed by faculties, students, director and admin. | View TES |

**Module 6: Report Generation**

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| **RN** | **Description** | **Comments** |
| FR17 | The admin shall be able to generate different Reports according to the requirement.   * Generate report for all the subjects configured. * Generate report for subjects according to the Academic-year. * Generate report for subjects configured according to different semesters. * Generate report for subjects configured according to the term (winter, summer). * Generate report for subjects configured according to the academic-year and semester. * Generate report for subjects configured according to the academic-year and Term. * Generate report for subjects configured according to the batch. * Generate report for common subjects in different programme on the basis of semester. | Generate Report |
| FR18 | The generated Report can be downloaded and viewed by faculties, director and admin. | View Report |

**Module 7: BOS(Board of study)**

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| **RN** | **Description** | **Comments** |
| FR19 | The admin will be able to add Date, Meeting time, venue and Meeting agenda | Backup Database |
| FR20 | Admin can upload all the Syllabus and TES which are finalized in meeting | Backup Data |
| FR21 | All the records regarding meetings and update of syllabus will be maintained |  |

**Module 8: Backup Management**

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| **RN** | **Description** | **Comments** |
| FR22 | The admin shall be able to backup and restore database whenever needed. | Backup Database |
| FR23 | The Generated TES, configured syllabus and reports can be saved on Google drive. | Backup Data |