**PROBLEM ANALYSIS OF EXISTING SYSTEM:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Process Name** | **Stakeholders** | **Concerns (Problems)** | **Analysis (Reason of the Problem)** | **Proposed Solution** |
| **Student Enrollment** | 1. Student 2. Department Head 3. Registrar’s Office 4. Faculty 5. Admin | Comparison of Student who have Enrolled in each Department with respect to a given Time Period/Semester | Student enrolled stat is recorded school-wise, department-wise, and program-wise but was not compared with respect to time period or semesters. | We want to keep the record in the count of students enrolled along with a visual comparison of the student stats as per school-wise, department-wise, program-wise and semester-wise. |
| **Assessments and Grading** | 1. Faculty 2. Students | 1) Condition of Question paper and Answer Script  2) Giving and Receiving Process  3) Unreliable Storage  4) Lack of Visibility of Learning and Question Difficulty | 1) The question papers and answer script which are being stored physically can get damaged or may get lost.  2) The Process of completing the assessment and giving it to the teacher in person is slow.  3) There may be a shortage of physical space due to increase number of papers.  4) Need to find the domain of learning and difficulty of the question manually and that also takes a lot of time. | The question papers and answer scripts can be stored into the database so there is no problem of storage. Once a question is placed inside the question bank, the question gets its difficulty level and domain of learning automatically assigned. Online submission of assessment saves time as it negates the necessity to submit a physical copy in person. |
| **Course Outline** | 1. Department 2. Faculty 3. Student | 1) Waiting Delay for receiving Necessary Resources  2) Creating a Course Outline | 1) The faculty needs to send requests to department and wait for them to send back the necessary materials.  2) It requires a lot of time to create a course outline manually. | A feature can be installed to generate the course outline automatically according to the things the faculty wants to add. It is stored in the database and it can be downloaded by the stakeholders in a pdf file. |
| **Student Performance based on CGPA** | 1. Student 2. Department Head 3. Registrar’s Office 4. Faculty | Comparison of Student CGPA between Schools, Departments, Programs and Courses | The CGPA of students can only be observed individually but can be compared between different schools, departments, programs and courses. | A system should be in place which will allow the stakeholders to analyze the CGPA not only individually but also based on different schools, departments, programs and courses for a given time period or semester. |
| **CO-PLO Achievement** | 1. Student 2. Department Head 3. Registrar’s Office 4. Faculty 5. Admin | 1) PLO Achievement of a Student for each Courses  2) Comparison of PLO Achievement within a Department  3) PLO Achievement Rate and Score  4) Reports based on CO-PLO | 1) Students are unable to monitor progress of their PLO achievement for respective courses as it is only available to higher authorities and is done manually  2) The PLO and corresponding CO of all courses a student does is never compared with cumulatively along with the departmental average performance.  3) PLO achieved versus attempted and the actual score is done manually which can be extremely time consuming.  4) Reports based on PLO and CO may not be enough to give a clear picture. | A system should be implemented which will record the PLO’ and CO’s in the database which will give easier access to the stakeholders. Comparisons regarding PLO achievements can then be made automatically which will save time. Charts can then be generated for better analysis. |