

AUTOMATED INTEGRATED EXAMINATION SYSTEM IN ABSTRACT

OBJECTIVE:

This project's objective is to build an integrated automated examination system to bring speed, reliability, accuracy and transparency in the system.

It attempts to introduce the concept of information and communication technology for the integration of examination system at the college level to bring reliable, efficient, scalable, robust and transparent solutions.

INTRODUCTION:

The volume of examination work has necessitated these days, the use of computer services also. Various jobs such as checking up of examination application forms, allotment of roll numbers, preparation of roll lists, tabulation of marks, and formulation of marks sheets are preferred to be got done by computer.

Modern age is the age of information. Technological advancements have shrunken the whole world. In fact with the advent of internet and web technology, everything became easy. In today's sphere of education, the use of computers not only helps in the process of learning but also in managing various streams of education. One among them is examination system.

PREVAILING EXAMINATION SYSTEM AND ITS DRAWBACKS

Present system:-

Prevailing examination system is a manual system which requires lot of man power and results in wastage of time and money. It has many draw backs and some of them are listed below.

Drawbacks:-

- Students have to wait for in long queues to take examination forms, deposit examination fee, and to get know the status of their results.
- The manual examination system leads to errors, more time consumption, inefficient and wastage of valuable resources.
- In existing system, managing of student's record is very tedious. Searching of students records in manual registers, maintaining of records and reconciliation are very time consuming.
- In existing system whole data of students are stored in papers, registers, as record is increasing yearly, the registers are piling up and some times we may see the staff sitting on these registers.

PROPOSED SYSTEM AND ITS ADVANTAGES

Proposed system:-

Proposed system is a computerized system which overcomes all the drawbacks discussed in the existing system before. It applies modern management techniques and brings efficiency, transparency and reliability to the system.

Advantages:-

- **With the adaptation of new system, there will be centralized, secure and robust database of the students without duplication of records.**
- **It will bring improvement in quality of services being provided to the students/concerned departments/sections by introducing computerized window system and online availability of information to the concerned departments.**
- **It will improve the efficiency of the work force that intern carries out many operations manually.**
- **There will be less human intervention in result processing by automating all the activities.**
- **The new system will streamline the procedure for collation of exam fee, issuing receipts to large number of students and keeping a track of cash flow.**
- **The computerized statistical analysis of data will facilitate the management to see trends in result at various levels. Management information system reports facilitate the top level management to take strategic decisions in favor of college and students.**

MODULES

Student's module:

The students module consists of various details of students like name roll no etc. This module consists of details of all the students of all the branches (IT, EEE, ECE, and CSE).

Faculty module:

The faculty module contains faculty name their designation (professor, asst professor) and the subjects being handled by the faculty.

Subjects module:

The subject's module consists of details of the subjects of all the semesters of all the branches of all the years.

Results module:

The results module consists of results of students in various years of all the branches. The results include internal marks and external marks and their averages and total marks.

Reports module:

The reports module consists of various reports generated i.e. class wise reports and student wise reports. This module includes reports like no of students passed or failed, no of students who secured above 75% etc.

SOFTWARE REQUIREMENTS

- **Operating system : Windows XP 2003/Linux/Solaris**
- **User interface : HTML/CSS**
- **Client side scripting : Java script**
- **Programming language : Java SE6/JSE6**
- **Web Applications : JDBC, JNDI, Servlets, JSP**
- **IDE/Workbench : Eclipse with My Eclipse plug-in**
- **Database : Oracle/Access**
- **Server Deployment : Tomcat**

HARDWARE REQUIREMENTS

- **Processor : Pentium IV**
- **Hard Disk : 40 GB**
- **RAM : 256 MB**

CONCLUSION

By this we conclude that this project facilitates students and faculty in observing the reports generated after every semester, in knowing the status of students' internal and external marks, in generating class wise and student wise reports, subject details, student details etc.