

Online Result Portal

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Abstract: The main objective of the project is to provide the examination result to the student in simple way. This project is useful for student & institution for getting the result in simple manner. This system is intended for the student and Exam cell. The privileges that are provided to student are to read and execute his/her result by providing use name and password for secure log in and in case of new student the registration is available. The overall result portal will be under control of administrator and exam cell as full privileges to read, write and execute the result. Admin gives permission to the faculty. The student can share and download the result. The details about the course will be entered by the faculty and it will be with CO.

Keywords: Automation, Mark sheet Generation, Course Outcome (CO), Program Outcome (PO), PSO, CBGS

I. INTRODUCTION

The project aims at developing a mark sheet generation system which can be used in universities/colleges for automate the distribution of digitally verifiable student result mark sheets. The system accesses the student's results information from the institute student database and generates mark sheets in Portable Document Format which is tamper proof which provides the authenticity of the document. Gazette sheet keeps the track of student information in properly listed manner.

The purpose of the contribution statement: The current examination process system is a complete manual work system which results in tedious work. It is necessary to manage registrations and admissions of students in periodic time at the educational institutes. The current system deals with the manual entries of the information about the students which leads the system prone to errors. The errors which might occur are the loss of data, data redundancy, time consuming process etc. The current system needs a lot of manual work as all the activities are done manually. The current system not only increases the workload for the exam-cell, staff members managing the registration and admission processes but also increases workload for the students. The collection of Results, Mark sheets, Hall tickets becomes a complicated and bulky process. Managing hard copies stack by stack becomes a tedious work for the exam-cell staff. Clearly articulate in ways which the research provides insight to a consumer-relevant question;

Secondary (Long-term) Objectives:

1. To map the course outcome with the program outcome.
2. Prediction analysis for the performance of the student.

II. RELATED WORK

We refer IEEE paper of "Automated Result Analysis using for Academics". In this system it will reduce the manual work of Faculties to do Student information entries and give automated result with Course Outcome (CO), Program Outcome (PO), and CGPI.

III. METHODOLOGY

Automated system consists of several modules which are used in the exam cell process. It ensures there education of the tediousness, more effective work and system at management. System is also responsible to deal with the registration of student, faculty members, generation automated exam form as well as K.T.form. It will also generate the automated results for the students and analyze the over-all result. Generated results can be accessed remotely and is capable of checking the eligibility of the students i.e. if they are eligible for the next semester, based on which respective hall tickets will be generated for the students. System uses some formulas and terms to calculate the Semester Grade Performance Index also known as SGPI and Cumulative Grade Performance Index (CGPI) prescribed by University of Mumbai.

Semester Grade Performance Index (SGPI): Nowadays, we check the semester wise performance of the student by a number which is known as Semester Grade Performance Index and it is abbreviated as SGPI and it is weighted by calculating the average of grade points of all the subject that a student scores in the semester.

$$SGPI = \frac{C_1G_1 + C_2G_2 + \dots + C_n G_n}{C_1 + C_2 + \dots + C_n}$$

We can also calculate an complete performance of a specific student from the time he/she takes admission in the university using the cumulative grade performance index. It is calculated in the similar manner as SGPI is calculated web apps, web services and mobile apps. Visual Studio uses Microsoft software.

$$CGPI = \frac{C1G1+C2G2+\dots+Cn Gn}{C1+C2+\dots+Cn}$$

IV. RESULTS AND DISCUSSION

LETTER GRADES AND THEIR EQUIVALENT GRADE POINT APPLICABLE FOR ENGINEERING UNDERGRADUATE

PERCENTAGE OF MARKS OBTAINED	LETTER GRADE	GRADE POINT	PERFORMANCE
80.00 AND ABOVE	O	10	OUTSTANDING
75.00 – 79.99	A	9	EXCELLENT
70.00 – 74.99	B	8	VERY GOOD
60.00 – 69.99	C	7	GOOD
50.00 – 59.99	D	6	FAIR
45.00 – 49.99	E	5	AVERAGE
40.00 – 44.99	P	4	PASS
LESS THAN 40.00	F	0	FAIL

CONVERSION SYSTEM TO CALCULATE CGPI FOR ENGINEERING UNDERGRADUATE

CGPI	EQUIVALENT PERCENTAGE MARKS
6.75	60%
7.25	65%
7.75	70%
8.25	75%

CO-PO attainment report will be generated by system as per the University of Mumbai prescribed method. The reports generated per semester can help in bridging the gap between the current learning techniques to outcome based learning.

□ Program Outcome Methods:

We can use following methods for calculation

Of program outcomes:

□ Direct Method:

In this method, we take CO attainment of all courses contributing to particular Program Outcomes and then calculate the attainment based on mapping (as per course articulation matrix).

□ Indirect Method:

In this method, surveys are taken from Automated Result Analysis using for Academics

Current passing out students (known as program exit survey), survey from employer (companies where students are placed), survey from industry person (from the industries where students are working as intern) to be taken.

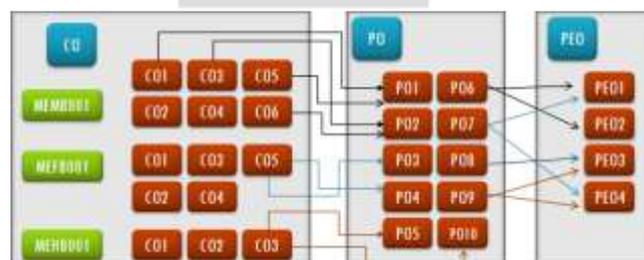


Fig 1: Relationship between CO-PO and PEO

V. CONCLUSION AND FUTURE SCOPE

Ultimately the result of the implementation of this project will lead to reduce the workload of the students, the faculty members and the exam-cell staff. The result would be a fully-fledged working Automated Examination Process System. Apart from this the students will be able to view their results, their academic status on the system itself. The faculty members will be able to enter the

marks for respective subjects for the students. The Exam-cell staff will be able to enter the external examination marks of the students. There won't be any need to use multiple different systems for different activities. The processes will be covered by the proposed system. This will reduce the tediousness of the manual processes and give a chance for efficient, flexible and automated processes.

FUTURE SCOPE

- Predicting the number of students that will pass in next year by creating model and applying Machine Learning algorithms
- Getting insights from the analysis report to suggest areas of improvement to faculties.

VI. ACKNOWLEDGMENT

No project is ever complete without the guidance of those expert how have already traded this past before and hence become master of it and as a result, our leader. So we would like to take this opportunity to take all those individuals how have helped us in visualizing this project. We express our deepest gratitude to our project guide Prof. F. Shaikh.

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