Uses of Educational Enterprise Resource planning

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Abstract- The present study focused on ERP that is software using for information system and it also manage the resources of business and education .In this paper, I emphasize to explain the educational ERP with its objectives and modules .Generally all the educational institution availing its benefit .in present scenario the quick and secure documentation is must with lessening hours. It enabled us with biometric attendance, transparency in business, cemented the customer-owner relationship .It also facilitate the proper channel of communication to **Teacher-Parent-Child** .In accounting and auditing the help of ERP is marvelous .Not only in business and education it has other perspectives too. The educational ERP gives benefits to faculty, students, parents and management at certain levels .ERP modules in managing timetable, transportation, library and attendance proved the importance or significance of ERP in this technical era.

Keywords: ERP**,** Objectives, Modules, Biometric Attendance, Comm. Channel , information System ,Management.

Introduction

Enterprise Resource Planning is an information system or a solution to manage ,plan all the functions or resources of business efficiently .Most frequently the term ERP used as an ERP software ,an application of information technology to integrate the whole organization into a single system .ERP system is based on real time and client-server architecture .The ERP architecture is three tier architecture ,allowing multiple users to work simultaneously from multiple locations on a single database , where an application server provides data for clients at an interface between client and database server .It deals with centralized database to create a distributed environment , bridges the information gap across the organization.

Definition

 "Computer- based systems design to process an organization's transactions and facilitate integrated and real-time planning, productions, and customer response**-(" O' Leary 2000)**

"ERP systems are configurable information systems packages that integrated information and information based processes within and across functional areas in an organization**- ("kumar and VanHillsgersberg.2000")**

Objectives of ERP

1. The ERP system simplifies the flow of data between different partners and stake holders in an institute and makes it accessible.
2. ERP system helps in minimizing the man power.
3. Reduces the paper invoices or manual work and create an automotive, accurate and consistence environment.
4. This can shorten the time to complete the process and make a fast feedback a process.
5. Provides a real time, faster or effective operations, consequently improve decision making speed.
6. Provides transparency between owner and customer.
7. ERP Solution reduces the cost and increase the productivity.

Educational ERP

Introduction: ERP (Enterprise resource planning) is widely adoptable technology by the organizations. The success of ERP systems depends on various factors since it embraces all business operations of an organizations, This system was not only meant

for manufacturing organizations ,now it is adopted by all type of organizations and higher education and universities are one of them.

Educational ERP is a concept or an information technology solution that integrates and automates all the academic and non-academic services/resources of the institute .Typical academic services may include registration ,admission ,recruitment ,students records etc .Non-academic or administrative functions include accounting ,payroll ,HR ,billing etc.ERP helps to track all the students records like admission ,performance ,their usage of library to hostels .With the help of centralized database all the data reflected to all the concerned departments on a touch of a button and within a fraction of seconds.

Features

1. School ERP makes it easy for quick and correct allocation or maintenance of information.
2. Demand of internal and external data in large volume.
3. Easy Maintenance of student's data and tracking students' progress helps making faster and effective decisions.
4. Monitor the regular operations which take a lot of time.
5. Shrinks the gap between parents, teachers and children.
6. Negligible paper work and build a digital campus, numerous transactions take place online, significantly saves time and resources.

Benefits

1. Faculty: Faculty/Staff members can make a better use of ERP software by managing the records of attendance, exams/test, marks etc. and greater focus on teaching and less on time consuming administrative functions. Staff members can also manage and check the time table, student's assignments, leaves and other HR activities. They can also make a efficient collaboration with students and parents.

2. Students: ERP software acts like a virtual platform for students. Students can get all the information regarding college activities and exams right through the software .They can upload their assignments and check their attendance, test records etc. They can also participate in online exams and projects .This software can also be used to access digital library and online notice board.

3.Parents: It has never been easier to handle the regular activities of their children .With the help of ERP software, they can be in touch of the teachers, anywhere, anytime on the internet .It plays a vital role in strengthen the relationship among them. Teachers can address each individual parent regarding to their children. They can look out for exams report, daily schedule, holidays, meetings, fee status etc. They would get informed about every activity via sms or online website.

4. Management: ERP helps in increasing the accuracy and consistency of the administrative work. It minimizes the paper work and create an automated environment .It allows the centralized reporting across the departments, consequently save the hours and money too .It is the better way for communication and managing the information .It minimizes the redundancy ,repeated data entry and sources of wastage. It facilitates in recruiting the staff, admission, enrollments, fee status, performance, profile management .As a result, it improves the productivity, outcomes and flexibility of deployment. It is used to preserve the digital records as an asset.

Modules

There are various modules in ERP software. These systems or modules are designed to help you drive higher performance in your higher education institute.

Admission: Admission is a hectic process which can be simplified with ERP. It is a process with a large amount of data required to be managed. ERP reduces the overhead of maintaining the physical documents by scanning the documents and attached with the concerns as a soft copy .It facilitates the information of the admission process and automates the process around the applicant database .It provides information about courses available ,selection criteria ,fees and registration process ,give students greater control to reach their goals.

Transportation: This module is designed to manage the transport infrastructure of educational institutes. It ensures the maintenance and assigning the charges of buses to the drivers. This module keeps the database update like routes, students transport details, who is using the conveyance, their fees status, timings of the buses, vehicle database etc.

Time Table: The teaching staff usually spends a lot of time in timetable generation and management .ERP provides an automated timetable generation tool which depending on the availability of teacher, students, classroom, capacity, time etc, generates and manages the time table as per the defined rules and constraints .This system also allows to do manual changes.

Library: Library is an integral part of an educational infrastructure, which caters number of books .When persons need of a book, they access the library anywhere, anytime by students and faculty members. It also enables a person to search for books ,issue a book ,accessing the periodical newspaper and magazines .Accessing the book details, rules of the library science .The responsibilities of a librarian has also become simpler, since they don't need to maintain the records ,related to cataloging and circulation of books, late penalties .It can also be used for labeling ,checking for the availability ,permit to authenticated users only.

Attendance: The tedious and stressful task for any teacher ,especially manually filling the attendance register and at the end of the session ,compiling or calculations can be simplified by integrate with the biometric system .The attendance auto calculates by the software and can easily be shared across the departments and with parents .The attendance can be displayed beautifully with help of graphs for maintaining its efficiency .It keeps the track of the daily students attendance including' time-in and time-out'. You can also generate a hardcopy of that record which can be required by academic institute.

Fee Management: This module is automated fee calculation module. Through this module the fees of students will be managed with their various installments and documents, As it generates a complete summary of payable fees. With this module, daily fee collection reports can be made available to the concerned authorities' .This portal allows to students and parents to view their own fee. The fee management module also handles all type of problems included late or advanced payments, previous balances. This module also provides the information about fees to be charged from different students' depending upon their quota.

Exam management: this module can be effectively used to reduce or minimize the stressful task of manually creation of examination schedules and their related activities .These types of activities gets repeated every 3-4 times in a session .This exam management module allows you to create and maintain marks entry, automatic result generation process, OMR integration, various reports related to results available to administration, students, parents at different levels. The database also allows you to upload old question papers for the aid of students.

Enquiry management: With this architecture, services are provided to students with respect to his/her enquiry .The enquiries can be serviced from multiple locations .Under a central database, we can search and analysis the required data, changes\updating to records. With a single click on mouse, users or administration can retrieve the required information and make a effective decision.

Hostel Management: The hostel management module is designed to manage residential and mess facility .This module is used for bed/rooms allocation .It also used to keep all the records update ,daily attendance ,check-in/check-out timing. maintain details about hostel names ,floors ,warden, inventory, fee status, updating of virtual notice board for new announcements.

Inventory: The inventory module maintains all the concerning issues and transactions such as budget ,orders ,stock ,quantities ,accounts payable etc providing a powerful control in education institutes .As it tracks the owner ,assignments ,fund accounting .It is also used to create ,manage the records of supplier and their types.

SMS: The SMS module made communication process easier .This module is used to send all/selective students/parents the message they want to convey .As it is used for bulk messages for the intimation of fess overdue ,attendance ,birthday wishes ,group messages to students/parents/teachers ,other complaints to parents. Send SMS while receiving fees as an acknowledgement, alerts for pending fees and attendance.

Conclusion: The benefits and impacts provided by Educational ERP software have brought a revolutionary change in education sector. The evaluation of the benefits of it, determine the need of this highly desirable software in order to achieve the higher performance in higher educational institutes. There are various institutes which are investing in ERP's to improve the productivity , performance and it became helping hand in providing quality education which keep us up to date with least time consumption.

REFERENCES:

1. Nagarajan,Anand,"How ERP can revolutionise campus management?"
2. www.profmax.com
3. www.panaceaerp.com
4. www.schoolmanagementssoftware.in
5. Leo Zornada MSc.,Tamara Bertok Velkarrh MSc. ,27th Int.Conf.Information Technology Interfaces ITI 2005,june 20-23,2005.cavtat.croatia.
6. www.ellucian.in
7. www.qualiantech.com
8. www.slideshare.com
9. www.campusmedicine.com
10. www.eduerpsoftware.com
11. www.ecampus.net.in
12. www.totalaccounts.com