



# IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

Vidyut Nagar, KAKINADA - 533 003. (A.P.)

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## INTRODUCTION

### Introduction to Enterprise Resource Planning

Enterprise resource planning is the one kind of web application that integrates all the modules and functionalities of the college system on a single system that can be handled by the administrative head and access by the students, faculties, and parents with valid user id and password.

As we know that, a college consists of different departments, such as course departments, fees management, library, hostel, transportation, inventory management, and so on. Nowadays applications and uses of information technologies are increased as compared to before; each of these individual departments has its computer system to do their functionalities. By having one main system they can interact with each other from their respected system by having valid user IDs and passwords.

The main goal of the entire system is to provide a user-friendly interface and powerful data system which make this system more useful. The College ERP system computerizes all the details of the college system which are updated by admin only can access by the students, faculties, and parents.

ERP on college management system reduces most of the human work that is done earlier to managing the college system. Once the details are entered into the system by the authorized person then there is no need for other users to deal with separate sections. Only a person that is having an administrative authorization is enough to maintain all the reports and records of the system. The security can also be provided as per the requirements. The main thing is that our system reduces the human works at a great effort.

It can be helpful such that

- Records are always updated.
- Manpower is decreased or reduced.
- Large amount of data regarding college and their modules can be stored.
- Accurate and perfect calculations are made.
- Maintenance of file is efficient and flexible.

## **Importance of Configuration and report Generation in ERP**

ERP configuration is one of the most crucial steps in your implementation process. Part of what makes ERP systems effective with improving productivity and efficiencies within an organization is that it's not a one size fits all product.

For every organization, ERP software will function differently to best meet your company's own data, parameters, fields and workflow in order to ensure that your employees are receiving and sharing accurate information with one another.

Proper configuration of your ERP system is crucial for ensuring both financial and reporting accuracy within your company. Prior to implementing an ERP software, start by finding an ERP platform that best matches with your business processes and understand the needs of each of your department as well. Failure to do can result in spending thousands of wasted dollars on ERP add-ons and additional customizations.

## **Introduction to Modules Present in our Software:**

### **Front office:**

School/College Front-Office Reception Management System manages the interaction of the visitors and keeps a track record of it. This module allows the front office executive to manage visitors and provides assistance to them. This module also allows selling of prospectus, admission forms, issuing of certificates, letters and keep track record for the early leaving students. This module allows the front office executive to manage visitor's details and provide them assistance. Front-Office Reception module also manages tasks like setting up of reminders for events, activities, contacts, appointments, incoming and outgoing calls routed.

### **Student Information :**

Student Information module consists of adding, updating the records of student details and also we have added few columns to create category, house columns and also making a separate list of disabled students. There is an option available to student and parents for online admission process.

### **Fees collection :**

Student Fees collection & receipt printing software is the most important department of a school, college or institute. This is the major source of income and major activity of any day in any education institute. In a school, you will need to receive fees from hundreds of students in a day and issue receipts to them. This process should be very fast and accurate. The module Fee collection, which automates department of fee collection for any school with complete security and consistency/accuracy of your data. Also, it allows receiving fees in seconds with few clicks of mouse/keyboard.

This student fee collection module will help the staff to utilize their time efficiently. It also reduces the overhead while collecting student fees so that management can utilize their time in other areas of the school. It also has partial payment facility, balance adjustment facility, fee relaxation facility, percent discount, optional fees, concession, hostel fees system, transportation fees and fee remainder facility. These features make the software a must for any school fee management software or college fee management software intended to computerize the process of student fee collection.

### **Income Module:**

ERP, at its core, is about workflow and information centralization, so bookkeeping modules/tools like Income/Expenses will help you aggregate and manage how money moves throughout your company. You should be able to view the entirety of your institution's finances in the program, from students fee receivable to funds accumulated. This apparatus typically includes features such as a general ledger, accounts receivable and accounts payable, reporting and payroll at the most basic level.

Reports are crucial to managing your finances and can significantly improve actionable insights through advanced data analysis. Additionally, financial statements can help you develop budgets while also keeping your college administration aware of your institution's financial status. Examples include profit and loss, tax, sales, cash flow statements and balance sheets.

Base ERP systems typically have financial management tools. They are also available as standalone accounting software.

### **Expenses Module:**

The Expenses module is the part of financial management of an institution in ERP. It allows institutions to understand their current financial state and future outlook. Key features of this module include tracking and managing the expenses per head. It also creates and stores crucial financial documents like balance sheets, payment receipts and tax statements.

The Expenses module can automate tasks related to billing, vendor payments and account reconciliation, helping the accounting department close the books in a timely manner and comply with current revenue recognition standards.

**Attendance:**

Collecting the daily attendance manually is a time taking process but updating by single person using the software not only saves the time but also generates various reports on this and informs the student, parents and also the other faculty up-to date is one the huge advantages of this system. In our software attendance, we collect the attendance by period.

**Examinations:**

With the growing pandemic situations outside the world, the technology is evolving and producing various solutions these problems, providing online examinations is one of the problems among them. In this ERP software we have made the online examinations and also downloading the admit card from the website, and also updating the result portal with generating rank cards for the obtained result.

**Lesson Plan:**

Lesson plan is designed to introduce the timetable for the classes along with the assigning teaching faculty with room numbers specified and also any kind of changes are updated. Not only the assigning but also providing the number of lessons completed including the topic name for that particular class.

**Academics:**

This module is used for creating classes and sections and also creating a timetable for the classes. Weekly classes are updated along with the subject assigned as per the schedule is done in this module. Promoting the students is an additional feature of the academics module where the students who completed

**Human Resource:**

The entire staff support of the college, along with workers are present in this module. All the human strength are updated in this module. Payroll options for the employess are maintained in this records along with attendance and providing records of the leave options.

**Communicate :**

This section is used to communicate with students, faculty, admin and other members of the college. The communication can be made through Notice Board where the notice can be given to all the members or some selected members or can even send emails and SMS to the individuals.

**Download Center:**

All the contents including study materials, other downloads, assignments, syllabus can be uploaded here and also students can download the content. Which was posted by the faculty.

**Library:**

We all are familiar with the library management system. This module is similar to that of software. Which contains book issues columns for maintaining the record of all the books which are issued and also shows the available books in the library. Library card holders details along with their id's are created to maintain their history of records.

**Inventory :**

In this inventory management, all the items delivered and supplier details are available along with students and teachers who use the inventory options are used in this system.

**Transport:**

All the transport routes and vehicles used in our college are entered as the records in this module. While assigning the vehicles to that particular routes and drivers for that particular vehicle are assigned in this module.

**Certificate:**

Many college Fests are arranged in the for every term in that generating certificates for each student might be difficult. But with this module, we can assign to certain students who won in the competitions and sending in the pdf format was great idea to generate certificates for multiple students at a time.

**Front CMS :**

The word CMS stands for "Content Management System". The content which is to be displayed on the website are designed in this website. For adding any pictures on the website. At first, we need to add them on the Media Manager and then we need to select the required pictures for the pages, Menus and also on Banner images.

**Reports**

Reports are used for filtering the data as per the requirements mentioned by the user. Reports are useful in analyzing the data. While checking for the students who didn't pay the fee or else searching with a certain criteria we can easily find them. In our software, we have designed modules for generating student details, library, inventory. alumni, human resources in various categories for each module.

**System Settings**

This integrated modules can only be accessed by " SuperAdmin".The configuration is the most important phase in the software. It consists of 18 modules. Configuration of an ERP system deals with handling of numerous usage controls, which can be switched off or switched on, so as to balance its functionalities to extant needs. First thing to happen is to install specific modules needed and configuring these modules, as per the scope of the project. Thousands of configuration tables are present, which define how the

system should operate, how the data entry screen will look like, how the signals and messages will appear etc.