



ORIGINAL RESEARCH PAPER

Computer Science

“A REVIEW OF ERP SOFTWARE IN ACADEMICS: A CASE OF MCA COLLEGE”

KEY WORDS: ERP, ICT, Academic, Internet, Network

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ABSTRACT

In today's working scenario, use of internet, computer and networking technologies are playing an important role in digital data transactions and its various operations related to administrative and overall functioning of the organization. Initially ERP was developed for large scale industries but gradually it has been introduced to other small scale industries as well as academic systems like colleges, universities, etc. SAP, BAAN, JD Edwards, Oracle Corporation is major dominating ERP vendors in the business. But at the same in house ERP's are also developed by the organisations or local software developers as per the need of organization. Present paper includes a review of ERP software which is used in the academic especially at college level to identify the user benefits and its impact on the organization.

INTRODUCTION

Since the invention of Computers, initially it started using for simple calculations and gradually it has been used for data transactions, storage and retrieval of data with the help of some office automation packages. As per demanding needs and requirements by the industries the software development process got into focus at major scale. Desktop software were developed according to the needs but these software limited to only single department or module. Hence, the Accounting, MRP, MRP-II, Inventory Systems were developed by considering the industrial requirements. But still these systems were not intergrades to all the departments, functions and operations of unit. ERP system is single software is developed for the organization which includes the all the departments their standard protocols, rules & regulations, users, etc. Finance, HR, manufacturing, supply chain, services, procurement, and others. At its most basic level, ERP integrates these processes into a single system. ERP system uses the latest technologies – such as machine learning and AI – to provide intelligence, visibility, and efficiency across every aspect of a business. Enterprise Resource Planning (ERP) is a software package, where it integrates the functional departments of an organization. Functional departments of an organization like Human Resource, Finance, Materials, Sales and Distribution, Logistics, Manufacturing, Operations, etc.

- Construction
- Industrial Services
- Healthcare
- Colleges, Schools, etc.

OBJECTIVES

- 1) To understand the importance of ERP software in academics specially for MCA College.
- 2) To explore the benefits of ERP software to some users i.e. staff members and students.

Scope & Limitation: The present paper is focused on the ERP software benefits concerned with the MCA College and its users. It studies the importance of ERP concept and its usability in academics. At the same time the present study is limited to MCA College only of Dhule district.

Research Methodology: In the present research study, MCA College is used as Sample Unit in which the respondents are students and staff members. This study is confined to the MCA College of Dhule district only. Hence, the purposive sampling technique has been used for data collection from the respondents. Total respondents are 45 used in this study. Questionnaire was prepared as per the objectives of the research objectives. It was distributed to the respondents for collecting their opinions. After collecting their opinions, the collected data got tabulated and quantitative analysis technique is used for further interpretations and conclusions.

Tentative Benefits of ERP

Higher productivity: Streamline and automate your core business processes to help everyone in your organization do more with fewer resources.

Better insights: Eliminate information silos, gain a single source of truth, and get fast answers to mission-critical business questions.

Accelerated reporting: Fast-track business and financial reporting and easily share results. Act on insights and improve performance in real time.

Lower risk: Maximize business visibility and control, ensure compliance with regulatory requirements – and predict and prevent risk.

Simpler IT: By using integrated ERP applications that share a database, you can simplify IT and give everyone an easier way to work.

Improved agility: With efficient operations and ready access to real-time data, you can quickly identify and react to new opportunities.

Major industries that use ERP include

- Manufacturing
- Distribution
- Professional Services

Data Analysis

Table 1 : Count of Respondents

Sno	Respondent	Count
1	Teaching	5
2	Non-Teaching	10
3	Students	30
Total :		45

Above table no. 1 shows the total count of the respondents used in the present study. Out of 45 respondent non-teaching are 10, teaching staff members are 05 and 30 students are used for collecting the opinions about ERP software which is used in the college administration.

Table 2 : Respondents Ratings about ERP Software

Q1) Ratings of ERP software on certain parameters		
Sno	Parameters	Range (0 to 5)
1	Transparency	5
2	User Friendly	5
3	Security	4
4	Privacy	5
5	Reporting	4
6	Accuracy	5
7	Mobility	4
8	Acknowledgements	4

9	User Hierarchy	4
10	Error Message and Tool Tips	5
Max Score : 50		45
Percentage :		90.00

Above table no.2 presents the ratings given by respondent about ERP software used in the college. The ratings are done on the scale of 0 to 5 where 0 indicates low and 5 is highest satisfaction of particular parameters. Out of max score 50, 45 is obtained score based on the given ratings by the respondent.

CONCLUSION

In this paper conclusion are based on the various opinions given by the respondent. The study is focused on the ERP software which is used for academic purpose in the MCA College. Following are the conclusions. 1) Students are agreed that the ERP system is helpful in fees payments, fees reminder and other administrative issues. 2) Academic ERP system benefits for the teachers as well as students. 3) Teachers are able the plan their academic activities , teaching sessions, course plans, student attendance, student reports, tutorial classes, exam , college time tables and other academic activities which are concerned with the academic sessions. 4) Admin department users opinioned that ERP software supports and helps functional operations of the department. 4) Teachers are able to find out slow and fast learners. 5) Teacher can upload class assignments to the students in online mode.

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