Abstract

Application of Information Technology like ERP, E-commerce, Data warehousing and Data mining are getting popularity in certain areas of industrial operations like Sales, production & Production planning, EIS(Executive Information System), System Admin, Statutory requirements, Corporate portal, Customer care, maintenance, quality control, inventory management, finance, marketing and HRIS(HR & Payroll). If we discuss to sustain competitive advantage in the dynamic market, an analysis at the micro level is essential e.g. Market and difference within markets, well-articulated understanding of market needs & implications of these for all functions i.e. On time Delivery (OTD) of raw material market projections, order scheduling, production planning & control and after sales analysis apart from that big challenge is maintain the structured data like Multimedia and synchronization of access & retrieval of data according to final output. ERP is the only solution to face all the changes emerged due to changed business environment and also for the problems due to preventing traditional system of working in terms of data accessibility for the heterogeneous platform through the ERP solution. In Industry accurate planning and scheduling of orders, better date predictions, quick response to query and online detailed information of orders is must for doing business.
result in the past few years at industry have invested in integrated systems, along with powerful hardware and software. The change from customized modular software to ERP is the current trend in Industry. Different type of industry are now going in for ERP/MRP (Material Resource Planning) and also web based software to enable them to remain competitive in this highly technology and competition driven economy. Effective application of Information technology in Industry has now become an integral part of their operations and a dire necessity for facing global challenges. Major benefits of ERP based systems are prompt and paperless communication, Better understanding of processes and business practices during implementation, an automatic discipline is imbibed in the users as lack of or delay in data entry by one department holds up the work in the next department. ERP helps in work center capacity analysis, work planning, advance planning of materials, stock management, warehouse management and reduced process cycle times resulting from using online purchase requisitions. By adopting ERP in industry system real time approach is possible to overcome the problem as mentioned above and also improve information system in terms of data access & retrieval.

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Index Terms

Computer Science

Information Systems
Keywords
- Information Technology
- Management Information System
- E-commerce
- Enterprise Resource Planning
- MRP
- Data Warehousing and Data Mining
- Inventory Management and Production Planning
- EIS
- HRIS
- Customer care