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Research Paper

"Application of Information Technology in Management Education"

Management

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ABSTRACT

Most of the Information technology management programs are designed to educate and develop managers who can effectively manage the planning, design, selection, implementation, use, and administration of emerging and converging information and communications technologies. Management requires information to assess and monitor performance at all levels of the organization. The information technology can be used by manager, non-manager, persons and organization in the firm's environment. The information cans be used for various purposes like strategic planning, delivering increased productivity, reducing service cycles, reducing product development cycles, reducing marketing life cycles, increasing the understanding of customer's needs, facilitating business and process re-engineering. The development of sound Management Education system supplemented by the result of the development and enforcement of information technology ownership. No management education activity, whatsoever, can be carried out without suitably managing all the facets of the relevant, associated knowledge giving faster and qualitative results. The generation needs to be brought up in the pace of next gen progress.

Introduction

Quality failures in management education, in professional & general life can and do result in serious human inconvenience, economic waste and sometimes loss of life because of the poor managerial educational background. Initially in businesses and other organizations, internal reporting was produced manually and only periodically, as a by-product of the accounting system and with some additional statistic(s), and gave limited and delayed information on management performance. Data was organized manually according to the requirements and necessity of the organization. As computational technology developed, information began to be distinguished from data and systems were developed to produce and organize abstractions, summaries, relationships and generalizations based on the data.

With this the relevance of teaching & learning methodology started changing with the requirement of the industries, and hence needed the pattern of the management education to be considered afresh to keep the pace of the technology advancement and the use in the fundamental management processes for faster & qualitative results. The senior /top management needs to know happenings in the company. However they should not be overburdened with too much operational and transactional data. The data should be processed into information i.e. analysis, summary, and exception reporting. The bottom line is that the information systems should enable them to implement, control, and monitor plans, strategies, tactics, new products, new business models or new business ventures. The reporting should be made periodically. They, should however be alerted immediately when significant events occur. The well trained manager with the arms of information Technology can give the better result indicating the current scenario for the working managers and the prospective managers to be well armed with the use of information technology.

Information Technology for Management information system

IT Management is a different subject from Management Information Systems. Management Information Systems refer to information management methods tied to the automation or support of human decision making. IT Management, as stated in the above definition, refers to the IT related management activities in organizations. MIS as it is referred to is focused mainly on the business technology phase of the business/organization. The concept of Information Technology Management includes considering the value creation that is created through technology. It is heavily dependent upon the alignment of technology and business strategies. While the value creation for an organization is a network of relationships between internal and external environments, technology plays an important role in improving the overall value chain of an organization. Most of the Information technology management programs are designed to educate and develop managers who can effectively manage the planning, design, selection, implementation, use, and administration of emerging and converging information and communications technologies. The program curriculum provides students with the technical knowledge and management knowledge and skills needed to effectively integrate people, information and communication technologies, and business processes in support of organizational strategic goals.

Information Technology & Management Education

Quality cannot be achieved merely by establishing a quality management system. The system must be developed intelligently and implemented intelligently by the people.]Well-defined, robust quality systems are a vital component for any company concerned with offering safe, high-quality products to its customers. Quality systems help provide corporate direction and are interwoven with most, if not all, departments of a business. Having such systems in place enables a company to effectively investigate customer complaints, examine the root cause of problems and validate operational processes. Despite the increasing knowledge management on IT based awareness and interest among academia and industry, a very diverse range of views and perceptions still exists. There is a need to appreciate the issues and concerns surrounding management education completely by e-learning & e-management education for e-governance research and implementation among communities of researchers and practitioners. The problem lies with the self management and the basic management education provided by the social system to the individual at different stages in life and which affects the professional managerial education where the individual finds himself or herself difficult to manage the knowledge acquired. In this case one finds himself unable to cop up with the fast Development & the changing profile of the latest helping & enhancing parameters in professional, personal & social life. This creates an environment around to retard the progress & development of the individual, of the society and of the nation.

Management education and Industrial needs

In the past, management education institutions enjoyed exceptional autonomy, but are now a days' confronted with an explosion of control measures, steering mechanisms and increasing accountability pressures. These multiple pressures for measurable performance output and outcome have been inspired by the doctrines of the 'New Public Management (NPM)'-paradigm. NPM advocates the adoption of private management instruments within public sector organizations in order to increase efficiency, effectiveness and quality. An e-learning system within knowledge management is traditionally analyzed as a knowledge resource repository, where the knowledge management methods can be implemented to increase the effectiveness of knowledge dissemination.

Knowledge Implementation Process

Knowledge implementation process stands for translation of

general knowledge to appropriate action plans resulting in generation of useful products and services. The first step in this direction is developing a knowledge structure. A knowledge structure just means development of a knowledge force that can successfully handle all activities of the corporate. For configuring an effective knowledge structure, corporate should group their work force to different classes based on their basic educational background. Those members of the work-force pool who possess the expected knowledge and skills should be drawn for the work centre. This sort of an exercise should be carried to cover all activity centers throughout the corporate. Corporate should also keep in mind that it may not always be practical to find an exact match of knowledge and skill combination. This process has to next proceed with identification of the various activities necessary to be carried out to generate the required product or services, identification of different inputs, their specifications and sources, preparation of activity layout and execution sequence.

Technologies:
Early KM technologies included online corporate yellow pages as expertise locators and document management systems. Combined with the early development of collaborative technologies (in particular Lotus Notes), KM technologies expanded in the mid-1990s. Subsequent KM efforts enhanced by software leveraged semantic technologies for search and retrieval and the development of e-learning tools for communities of practice . More recently, more unstructured, self-governing social computing tools (such as bookmarks, blogs and wikis) have allowed to develop or transfer, capture and knowledge communities, network, or matrix organizations, including new forms of ecosystem approaches for building such devices while still for the most parts are based on text and code, And thus represent explicit knowledge transfer. Software tools in knowledge management are a collection of technologies and are not necessarily acquired as a single software solution. Furthermore, these knowledge management software tools have the advantage of using the organization existing information technology infrastructure. Organizations and business decision makers spend a great deal of resources and make significant investments in the latest technology, systems and infrastructure to support knowledge management. It is imperative that these investments are validated properly, made wisely and that the most appropriate technologies and software tools are selected or combined to facilitate knowledge management in management education.

Evolution & Development of Technology based Knowledge
It is a universally accepted truth and a well recognized fact that knowledge is the supreme power on earth and acts as a very useful and an indispensable tool in the hands of mankind. Knowledge plays a key role in shaping all facets of life. A judicious and a diligent application of knowledge is all that is needed for this purpose. The process of learning is an integral part of acquiring knowledge. The process of learning leads to an understanding.

Development of knowledge passes through a series of transformative evolution processes, notable among them are the five stages with an extrapolation to the sixth stage.

· First Stage : Collection of Data/information/Fact/Phenomenon
· Second Stage : Understanding of the Data
· Third Stage: Interpretation of Data from understanding.
· Fourth Stage : Repetitive Learning
· Fifth Stage : Derivation of an Intellectual Component
· Sixth Stage : Refinement of Intellectual Component

Information Technology & Knowledge Management
The key purpose of knowledge management in Information Technology is to leverage existing knowledge and facilities and to identify appropriate external source, whenever needed to support such leveraging actions and to competitively meet the targeted objective. As such knowledge management has to first create an ever-potential, ever appreciating, perpetual knowledge bank and should ensure that the bank retains forever .Information technology helps corporate in many of these areas when suitably managed in addition to dealing with different types of data and it's processing, this technology also works on the principle of scientific reasoning. All the features suitably supported with required data/information, Enterprise Resource Planning/Enterprise Resource Management ERP/ ERM, Supply chain management (SCM), Resource Conservation Management (RCM) etc.., become a practical reality because computerize IT base can work out appropriate combination of organization of organizational resource as well as resource input for competitively generating a product/service of customer need (CRM-Customer Relationship Management)..

System projection
The implementation of technical based education system will help formulate & develop, enhance & improve method & concept for high quality educational system by enhancing the process formulation & control. This shall bring the quality concept in the organization in particular and in the society as a whole. An e-learning system within knowledge management is traditionally analyzed as a knowledge resource repository, where the knowledge management methods can be implemented to increase the effectiveness of the organization. This if introduced or implemented at the level of management studies will give a cutting advantage to bring in the quality in the process throughout the implementation of the procedure & hence bring effectiveness in the planning, organizing & implementation.

Perspectives on Knowledge, Information, Data
In everyday language we use knowledge all the time. Sometimes we mean know-how, while other times we are talking about wisdom. On many occasions we even use it to refer to information. Part of the difficulty of defining knowledge arises from its relationship to two other concepts, namely data and information. These two terms are often regarded as lower denominations of knowledge, but the exact relationship varies greatly from one example to another. Within more technologically oriented disciplines – particularly involving information systems-knowledge is often treated very similar to information. It is seen as something one can codify and transmit and where IT plays a pivotal role in knowledge sharing. This kind of simplistic view of knowledge was particularly widespread during the 90s when information technology became increasingly more common. However even today, some KM systems are little more than information management systems using knowledge as a virtual synonym for information.

Conclusion
The details of study will help formulate & develop, enhance & improve method & concept for high quality educational system by enhancing the process formulation & control. This shall bring the quality concept in the organization in particular and in the society as a whole. An e-learning system within knowledge management is traditionally analyzed as a knowledge resource repository, where the knowledge management methods can be implemented to increase the effectiveness of the organization. This if introduced or implemented at the level of management studies will give a cutting advantage to bring in the quality in the process throughout the implementation of the procedure & hence bring effectiveness in the planning, organizing & implementation. Knowledge management process implantation with e-learning is often interchangeably used with web-based learning or learning with technology which facilitates just –in-time learning without disruption of the daily work schedules bringing in the quality in the system approach. Management education institutions have come under substantial pressure in recent decades, but neither theory nor practice has fully adjusted to the new circumstances. The attempts to increase the efficiency and effectiveness of management education institutions compromise several factors and affected the way management education institutions manage their teaching pattern and exposing the students for the new challenges..

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