

EMPLOYABLE SKILL DEVELOPMENT IN NEW INDIA

**Benchmarks and Best Practices
Perspectives and Approaches**



Editors

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Knowledge Management Scenario along with E-Governance Model for Enhancing Professional Education in Higher Educational Institutions

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ABSTRACT

In recent times, higher education is not in a favorable time period. Various challenges and pressures are associated with it. Professional Education requires the collaborative use of workers, employees in an organization or company. The key professionals involved in knowledge management programs are information technologists and human resource manager including information professionals. So, there is great need to maintain indulgence and adoption of the latest standards in the field of professional education so as to gain global leadership positions.

In simple words, Knowledge Management (KM) is the task of developing, sharing and analyzing knowledge obtained through individual's experience within organization. The following paper revolves around the conceptual framework in lieu of Knowledge Management (KM) practices in various B-Schools and universities in Delhi like Jamia Millia, GGSIPU, Delhi University, JNU etc.

In this paper, the e-governance model and its application to professional education have also been presented. E-governance is the best approach for bringing transformation to employees' lives. It may lead to interaction of organization in process of education plan and management of institutions.

Keywords: Knowledge, Knowledge Management (KM), Information and Communication Technologies (ICT), E-Learning, E-Governance.

1. Literature Survey

It seems that golden period when educational institutions are treated as temples of education has gone from our lives. With increasing conditions of marketplace and latest technology trends, educational institutions have become shops serving educational business.

There are several studies and efforts led to KM principles and techniques towards learning education. But, concept of Knowledge Sharing has not been defined. Knowledge Management (KM) is the sea of concepts and practices used in universities to perform following strategies [1]:

All strategies employ methods and Software tools for promoting KM in higher education systems. Various universities have failed to

cross the first step of KM (i.e. identification) due to lack of technology, infrastructure facilities, lack of communication and business techniques. Various views by different professionalists are given as:

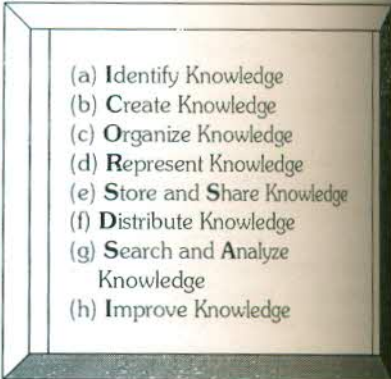
- 
- (a) Identify Knowledge
 - (b) Create Knowledge
 - (c) Organize Knowledge
 - (d) Represent Knowledge
 - (e) Store and Share Knowledge
 - (f) Distribute Knowledge
 - (g) Search and Analyze Knowledge
 - (h) Improve Knowledge

Fig. 1: Strategies of Knowledge Management (KM)

In most organizations, the key professionals involved in knowledge management activities are human resource managers, process & product developers, and information technologists (Taylor, 2001).

- Kautz (2002) investigated the use of an IT-supported knowledge management system (KMS) that is embedded in knowledge management framework in a large, global IT consulting company.
- The implementation of an appropriate knowledge management program in universities has potential of improving student's actual knowledge, improving managerial skills and contributes to global position in marketplace (Heisig & Vorbeck, 2001).

2. Introduction

With the advent of time and era of Internet, students prefer receiving information quickly. They wish to perform multiple tasks at one time, low tolerance of lectures and depends on ICT [2]. So, universities need to expand themselves in terms of skills and knowledge. The way of managing information by any institution is also one of crucial factor in estimating the ranking of a given institution. It is directly connected to KM as KM is an effective allocation of resources like staff, lecture details, courses, student's information etc.

The faculty members in various colleges must not adhere themselves to conventional education techniques. They must provide flexible teaching to students with the help of modern computational methods and analysis tools. There are various issues that need to be noticed like:

- Various approaches in KM area
- Pros and cons of these approaches during implementation.

- Reasons to use KM principles.

There are two factors that can make any university to limit the sky in terms of knowledge and skills are: Availability of technology and Knowledge Management (KM). Some universities have benefitted themselves by investing in knowledge resources while some of them are facing challenges.

Fruitful plans and recommendations should be made in all universities to improve knowledge sharing and reform decision making.

The following sections of the paper are as follows: Section 2 gives brief description of KM and its importance in higher education. In Section 3, various approaches of KM are presented. It lists improvements that should be carried out within institution itself as well as by government. Section 4 deals with e-governance model and its application in increasing growth of education in universities. Section 5 concludes about the following paper.

3. History of Knowledge Management

The word Knowledge Management (KM) is derived from two words-Knowledge and Management. Knowledge in turn is derived from Data and Information. Data is raw information related to any topic. Information is linked data set made from raw data. Do not mix terms information and knowledge. Information is not Knowledge. Knowledge is defined as selecting suitable information and applying it to given problem. Knowledge management (KM) is a collection of processes that govern the creation, dissemination, and utilization of knowledge in an organization (Newman, 1991).

Knowledge is defined as perception/ understanding that is gained through some experience or performing some studies and analysis. Management means how to manage knowledge in an efficient manner i.e. how given knowledge is to be developed, shared and analyzed (DSA) to enhance the quality of education.

KM is an alarming topic in management area.

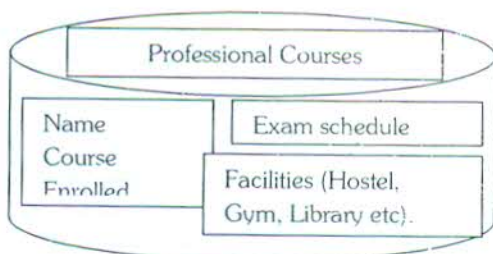


Fig. 2: Sample of Professional Knowledge Repository

3.1 Issues that Hinder Growth of Professional Education in Institutions

Following are issues that hinder the growth of any institution in implementing KM programs [3]:

- a. *Failure to Maintain Collaboration with Institutions Objective and KM Tools:* It means that institution authority spends time and money on those things that have minimal impact on student's performance instead of spending time and money in developing and using KM tools.
- b. *Development of Online Software without Knowing the Methodology and Design of KM Practices.*
- c. *Dependent on Online Training Programs:* Many institutions focus more on organizing online training programs for student's education. Although It is one of

KM tool but significant learning and knowledge is achieved only when student interact with teachers to solve problems. Institution must try to make students more responsive towards teachers.

3.2 Benefits of KM in Professional Education

- KM helps university to gain appropriate information as well as knowledge and applying those using Knowledge Management System (KMS).
- It helps teachers and students to search for basic documentation knowledge in less time.
- It makes efficient use of ICT methods to create new innovation theories related to education.
- KM plays a vital role in main tasks of any university –Teaching and Research. In the context of teaching, it uses various KM tools to facilitate e-learning portal and online transformations at university level. In the context of research, seminars, survey are organized and information is distributed to all phases of university.
- It creates modern picture of institution accomplishing latest technology trends for KM.
- It makes knowledge learning interactive and easier among students.

4. Approaches of KM in Higher Education

There are mainly three approaches of Knowledge Management (KM).

- a. *Development of Knowledge Management Methods:* It is done with the help of technical experts to develop some e-learning portals for teaching students. Here, we have described e-learning

teaching application that is used in some universities like IPU, JNU etc.

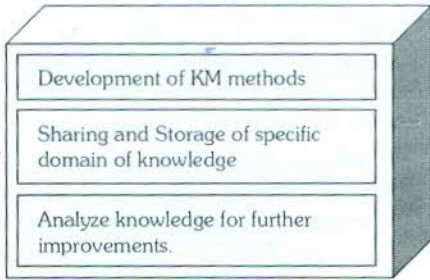


Fig. 3: Approaches of KM

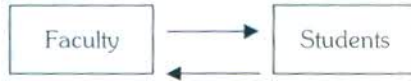


Fig. 3: Information Management (Website) of JNU

It is web based application that distributes entities of knowledge into different independent modules. E.g. Separate modules for Student Corner, University Corner etc.

b. Sharing of Knowledge: This approach uses KM tools like email, video conferencing, blogs, chat servers to facilitate the interaction and involvement between faculty and students. This method of visualization increases the ability of students to learn from their teachers in existing environmental conditions. It is one of a vital factor for

improving management of higher education in various Delhi universities.



It is two-way process.

Shared Knowledge is stored in form of repositories.

c. Analyzing Knowledge: We have developed e-learning teaching portal but after analyzing knowledge obtained through application, we have noticed some of its bottlenecks. They are as follows:

- No face to face interaction between faculty and students.
- Lack of confidence among students to present their knowledge in front of teachers.
- Students become independent of teachers because they can access assignments, lectures, and study material from online portal thus reducing teacher-student relationship.
- It may be possible that an online portal is developed only in English language which makes difficult to understand by all students.

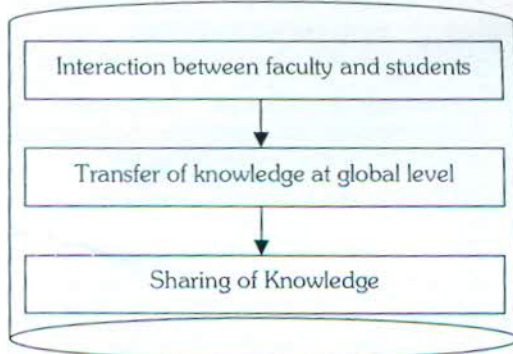


Fig. 4: Backbone of Educational Institutions

4.1 Focus Areas to Enhance Professional Education Development

- Determine the degree of involvement of teachers, information professionals in KM activities within institutions.
- Lists various roles performed by professionals.
- Encourage students to learn from the skills and activities of professional teachers.
- Factors inhibiting the participation of professionals in KM activities.

4.2 Improving KM in Professional Education

a. Improvement within institutions

- There should be some features like decision making, rewards, prizes based on student's assignment and presentation to their teachers.
- It will increase enthusiasm and interest of students regarding their studies.
- Poster competitions, writing research papers and organizing research funded projects by institution may help to improve higher education and increases thinking ability of students.
- There must be high quality, interactive application modules over Internet for students in institutions.
- Virtual learning tools (editors, converters) should be used in universities to provide educational content, online information etc.

b. Improvement by Government

- Every institution must be approved by governing agencies like AICTE, UGC.
- The government must eliminate the gaps among different levels of colleges in India like some colleges are owned by trust and

some are running without any affiliation from govt. departments. Various professional courses must be introduced in colleges.

- All institutions should be equally funded by govt. thus providing all essential KM facilities to students.
- Govt. should select students from various institutions based on their academic performance and technical activities.
- Students must be given opportunities to show their talent in government aided research projects like DST, MHRD etc.
- Govt. must introduce fee waiving system for reserved categories students/ financially weak who wants to study in their lives.

5. Concept of E-Governance

Applying effective and electronic methods of ICT for strengthening the performance of educational institutions is termed as E-Governance [4]. Performance of educational institutions covers aspects like management, administration, responsiveness towards students and curriculum activities.

Due to ample amount of colleges/universities in recent years, e-governance has lost its scope. So, it is the duty of government to keep record of colleges and prescribe certain measures to improve student's academic performance. Indian education system must be eco-governing.

5.1 Why there is Need of E-Governance?

For the last decades, education is growing like a business tree. Root Node of tree is Director of respective institution and its child nodes are Professors who are guiding students in non contiguous manner. They are only concerned about their salaries instead of learning capabilities of students.

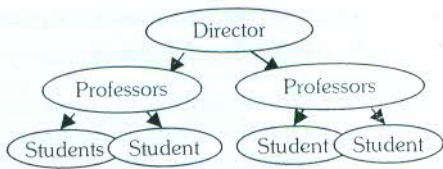


Fig. 5: Education Tree

After this one question arises: Is Computerization and E-Governance are same?

The answer is NO. Computerization means use of computers only. It replaces existing methods/norms by introducing facility of online methods. It does not take into account about needs of students and institutions.

E-Governance modifies as well as creates new system by using services of ICT according to students' and college requirements. It reduces manual management as well as increases operational efficiency.

5.2 E-Governance Model

Basic e-governance model is based on applying electronic methods on three groups' viz internal operations of Government (G2G), External methods between Government to Consumers (G2C) and Government to Business (G2B). Consumers mean students, professors and other information seekers in field of education.

Table 1: Internal vs. External Methods

Internal Methods	External Methods
This mode of interaction reduces cost of sharing views among different governments. They can internally resolve matters.	This mode can be treated as creating awareness among various institutions regarding the management, admin, staff etc of respective colleges. It can be done in form of seminars, workshops (Faculty Development programme) organized by various colleges.

For better functioning and increasing involvement of government, there are some govt. based models like Gartner Model, Howard Model etc. which uses ICT methods to implement e-governance in higher education system.

The model has the following phases:

a. *Information (Lowest Complexity)*: It is based on external operations (G2C, G2B). G2B means government will consider various aspects of giving quality education to students like Course Details, Results, Facilities (Library, Gym, and Hostel), Research Facilities (Seminars, Publications, Thesis). It is termed as Information Management that emphasis on storing and delivering of information related to following aspects:

- Information about govt. central schemes for career advancement.
- Student Fellowships programme and scholarships.

Government agencies like AICTE, UGC must provide affiliation to various colleges and prepares Management Information Systems (MIS) of above given aspects.

b. *Interaction*: It interacts with regulating govt. bodies as well as provide two way communications between students and teachers. Affiliated institutes are made to send monthly reports, their demands, and approval to UGC, AICTE.

c. *Transaction*: The model introduces e-filling of application forms and depositing fees. There is no need to go bank to deposit fees. Students can upload their photo and signature while filling application forms.

d. *Transformation (Highest Complexity)*: It includes development of online MIS for various colleges that is divided into following modules:

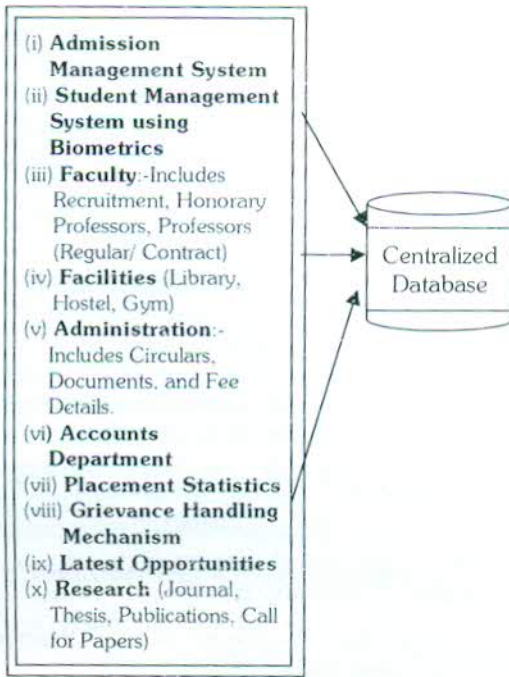


Fig. 6: Sample of MIS in Various Universities

Our aim is that data stored in MIS is centralized/integrated so that regulating bodies and students can access particular information in one place. This MIS must be updated weekly like Student's Placement Statistics, Fund allocation etc.

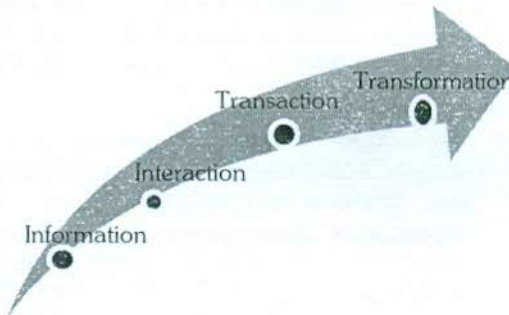


Fig. 7: Phases of E-Governance Model

5.3 Role of E-Governance Model in Professional Education

- This model is developed by government in collaboration with participating industries and other funded organizations. So, this model is suitable to meet all the requirements of institutions according to present scenario of ICT.
- The model has a centralized database that makes retrieval of educational aspects easier.
- Centralized database consisting of MIS of various colleges will keep the updated credentials related to student's management.
- Provides services covering all aspects of quality education like job opportunities, physical as well as mental fitness, personal development training to students. Forgive latest job opportunities, institutions must have collaboration with companies.

6. Conclusion

The paper makes readers aware of Knowledge Management Principles in the field of education. Various approaches and improvements are described in the paper in order to cope with latest trends of technology and growing demands of students in universities. To avoid students going to different private coaching centers, there is crying need to use Knowledge Management Principles. There are various KM tools like video conferencing, chat servers, blogs, social networking sites that help in improving extent of communication and learning among students. If knowledge is managed in an efficient way, then it becomes easier for student and teachers to access facts, information and solutions. Knowledge is managed by using Knowledge Management

ms (KMS) that can be Document based, technology based or Artificial Intelligence d.

t from KM approaches, E-governance is of the crucial factor for enhancing quality education in universities. To apply e-governance in education system, we must e technical and management skills that replace the traditional skills and practices. courses like 'E-Transformation and Management' must be introduced in various institutions to create awareness about e-governance. E-governance model has been n in paper with its phases and their application to support institutional transformation.

g citizen of India, let's take pledge to e India-KNOWLEDGE POWER TRANSFORMATION in upcoming years.

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