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Impact of Knowledge Management on Organizational Performance in Higher Educational Institutions

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Abstract: Knowledge management is a process by which individual knowledge is transformed into organizational knowledge. It is an important activity in all types of organizations more specifically in academic institutions. The present study aims to investigate the relationship between different constructs of KM – IT centred KM, Learning based KM, Capture based KM and organizational performance. The study is conducted among 101 faculty members with the help of a questionnaire designed for the purpose. The results revealed that Learning based KM is relatively high when compared to other constructs of KM in academic institutions and Capture based KM is a better predictor of organizational performance when compared to IT centred KM and Learning based KM.

Keywords: Knowledge Management, IT Centred KM, Learning Based KM, Capture Based KM, Organizational Performance..

INTRODUCTION:

Today's economy is referred as knowledgebased economy. In the light of rapid developments that led to the emergence of a new economy, knowledge has become a vital resource and asset. It is widely accepted that knowledge is the key factor to individual as well as organization to succeed in the increasingly competitive environment [1]. KM is a process that transforms individual knowledge into organizational knowledge. It is not only sufficient to create knowledge, but also to acquire and apply knowledge quickly. Knowledge sharing is an important activity especially in academic institutions. KM is widely accepted as a management paradigm in order to deal with the varying expectations of the organization [2]. The rapid changes have affected educational sector just like any other sector. This Higher Educational Institutions stimulated universities to think the same way like business organizations and their ability to compete depends largely on how the academic institutions change and improve in tune with the changing requirements.

Modern world is popularly referred as the information age and knowledge is the vital resource in this era. The problem today does not lie in obtaining information, it lies in managing it; the most important challenge for organizations is how to process knowledge and to make it profitable in the recent knowledge-driven organization [3]. Due to this reason,

organizations are considering KM as a significant driving factor in today's dynamic environment [4, 5, 6].

CONCEPTUAL FRAMEWORK:

Rastogi [7] defined knowledge management as "a systematic and integrative process of coordinating organization-wide activities of acquiring, creating, storing, sharing, diffusing, developing, and deploying knowledge by individuals and groups in pursuit of major organizational goals."

IT centered KM: It emphasizes providing basic IT infrastructure such as intranet, databases, email and instant messaging.

Capture based KM: It focuses on codifying organizational knowledge for storage in repositories and on protecting organizational knowledge from leakages and misappropriation.

Learning based KM: It emphasizes on organizational learning that occurs through a two-way interaction between individuals, groups and organization.

Organizational performance: Organizational performance depends upon processes such as innovation, employee engagement, leadership, etc. that ensure long-term success and survival of a firm.

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RESEARCH PROBLEM:

Even though Knowledge management concept's importance is widely accepted, little empirical research has been conducted to investigate the relationship between KM and performance [8, 6]. KM's role in education is considered to be more than its role in business [3]. But not many research studies are conducted on KM processes and their impact on academic performance in the field of higher education [9].

LITERATURE REVIEW:

KM is a process that helps in achieving objectives and enhancing organizational performance through creating, accumulating, organising and utilising knowledge. Kidwell, Vander Linde and Johnson [10] identified benefits of KM in higher-education environment in research process, curriculum development process, student and alumni services, administrative services and business strategic planning.

Quink [11] explored the impact of knowledge management on the organizational performance of non-profit organizations. The findings revealed that there is a positive relationship between knowledge management infrastructure, knowledge management process, and organizational performance. Another research study revealed that there is a great correlation between knowledge management capabilities and organizational performance [12]. The research conducted in Croatia suggested that KM positively affects organisational outcomes of company innovation, product improvement and employee improvement [13].

Mills and Smith [14] studied the impact of knowledge management resources on organizational performance. The results reported that some knowledge resources (structure & acquisition) were directly related to organizational performance, while others (technology & culture) were not directly related to organizational performance.

Suzana and Kasim [15] highlighted the significant role of Knowledge management practices in

improving the performance of organizations. The results showed that the levels of knowledge management practices were important criteria for determining and improving organizational performance. Results have shown that the KM processes namely: knowledge identification; knowledge acquisition; knowledge storage; knowledge sharing; and knowledge application had a significant effect on academic performance [16].

OBJECTIVES OF THE STUDY:

- To explore different components of knowledge management in academic institutions.
- To determine the relationship between different components of KM -IT centred KM, Capture based KM, Learning based KM and organizational performance.

HYPOTHESES:

- 1. There is no relationship between KM components IT centred KM, Capture based KM, Learning based KM and organizational performance.
- Organizational performance is independent of IT centred KM, Capture based KM and Learning based KM.

METHODOLOGY:

Faculty working in various Higher education institutions constitute the universe of the present study. The primary data is collected with the help of a questionnaire designed for the purpose. Questionnaires were distributed to 125 faculty members but 101 respondents returned the filled-in questionnaire. The questionnaire has two sections – first section deals with demographic details of the respondents and the second section addresses questions relating to KM constructs – IT centred KM, Capture based KM, Learning based KM and organizational performance. The data is analyzed using various statistical tools such as Mean, Standard deviation, Correlation and Regression.

RESULTS AND DISCUSSION:

Table 1: Mean scores of components of KM and organizational performance on a scale of 1 -5

| Components | Mean | Standard Deviation | | | |
|----------------------------|-------|--------------------|--|--|--|
| IT centred KM | 3.596 | 0.274 | | | |
| Capture based KM | 3.834 | 0.331 | | | |
| Learning based KM | 3.944 | 0.189 | | | |
| Organizational performance | 3.940 | 0.551 | | | |

It is evident from table 1 that knowledge management in educational institutions as perceived by the respondents is more through learning based KM followed by Capture based KM as reflected by high mean score. Organizational performance as perceived by the respondents is also pretty high indicated by 3.94 mean score on a scale of 1-5.

Table 2: Correlation between components of KM and Organization performance

| Components & Type of Statistic | | IT centred km | Capture based KM | Learning based km | Organization performance |
|--------------------------------|---------------------|------------------|---------------------|----------------------|--------------------------|
| IT controd lam | Pearson correlation | 1 | 0.107 | 0.107 | -0.105 |
| IT centred km | Sig. (2-tailed) | | 0.286 | 0.285 | 0.297 |
| Capture based km | Pearson correlation | 0.107 | 1 | 0.439** | 0.289** |
| | Sig. (2-tailed) | 0.286 | | 0.000 | 0.003 |
| Learning based km | Pearson correlation | 0.107 | 0.439** | 1 | 0.212* |
| | Sig. (2-tailed) | 0.285 | 0.000 | | 0.033 |
| Organizational | Pearson correlation | -0.105 | 0.289** | 0.212* | 1 |
| Organization | Sig. (2-tailed) | 0.297 | 0.003 | 0.033 | |

^{**}Correlation is significant at the 0.01 level (2-tailed).

N (Sample Number) =101

Table 2 reveals that there is positive correlation between Capture based KM & organizational performance, Learning based KM & organizational performance which is statistically significant. This shows that if Capture based KM and Learning based KM are high in the institution, the

organizational performance also will be high. If the organization emphasizes capturing employees' knowledge in documents and facilitates knowledge exchange between individuals and groups in the organization, the organizational performance improves.

Table 3: Model summary

| | | A directed D | SE of the | Change Statistics | | | | |
|-------------|------------------------------|-----------------------|-----------------|-------------------|-------|-----|------------------|-------|
| R | R R Square Adjusted R Square | SE of the Estimate | R Square change | F Change | Df1 | Df2 | Sig. F Change | |
| 0.336^{a} | 0.113 | 0.086 | 0.527 | 0.113 | 4.119 | 3 | 97 | 0.009 |

^a Predictors:(Constant), Learning based km, IT centred km, Capture based km

Table 4

| Model | Sum of Squares | Df | Mean Square | F | Sig. |
|------------|----------------|-----|-------------|-------|-------------|
| Regression | 3.432 | 3 | 1.144 | 4.119 | 0.009^{a} |
| Residual | 26.944 | 97 | 0.278 | | |
| Total | 30.376 | 100 | | | |

a. Predictors: (Constant), Learning based km, IT centered km, Capture based km

Table 5: Comparison between IT centred km, Capture based km & Learning based km

| Component | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | Collinearity Statistics | |
|----------------------|--------------------------------|-------|------------------------------|--------|-------|-------------------------|-------|
| | В | SE | Beta | | | Tolerance | VIF |
| Constant | 2.030 | 1.245 | | 1.630 | 0.106 | | |
| IT centred km | -0.291 | 0.194 | -0.145 | -1.499 | 0.137 | 0.984 | 1.016 |
| Capture based km | 0.421 | 0.178 | 0.253 | 2.374 | 0.020 | 0.804 | 1.244 |
| Learning based km | 0.339 | 0.310 | 0.116 | 1.092 | 0.278 | 0.804 | 1.244 |

Dependent Variable: Organizational performance

Table 5 shows that Capture based KM is a better predictor of organizational performance when compared to IT centred KM and Learning based KM. This implies that organizational performance significantly depends upon Capture based KM

CONCLUSION:

Knowledge sharing is vital to the success of knowledge management practices in all organizations, inclusive of universities. Effective knowledge sharing is essential for the organization to benefit from the knowledge its employees have generated. In managing

^{*} Correlation is significant at the 0.05 level (2-tailed).

b. Dependent Variable: Organizational performance

the valuable knowledge asset, organizations always seek help from technology to build sophisticated database to capture and store knowledge. This study investigated the role of knowledge management in enhancing the organizational performance and addressed its relationship with performance improvement. The results revealed that that there is positive correlation between Capture based KM, Learning based KM and organizational performance.

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REFERENCES

- 1. Syed-Ihksan RF; Benchmarking Knowledge Management in a Public Organisation in Malaysia. Benchmarking, Bradford, 2004; 11(3): 238.
- 2. Safa MS, Shakir F, Boon OK; Knowledge management: Practice and performance of NGO in Maldives. International Journal of Management and Entrepreneurship, 2006; 2(1): 69-86.
- 3. Sallis E, Jones G; Knowledge management in education: Enhancing learning & education, 2002; London, UK: Kogan Page Ltd.
- 4. Wong KY, Aspinwall E; An empirical study of the important factors for knowledge-management adoption in the SME sector. Journal of Knowledge Management, 2005; 9(3): 64-82.
- 5. Yeh YMC, Ta Y; The Implementation of knowledge management system In Taiwan's higher education. Journal of College Teaching & Learning, 2005; 2(9): 35-41.
- 6. Zack M, McKeen J, Singh S; Knowledge management and organizational performance:an exploratory analysis. Journal of Knowledge Management, 2009; 13(6): 392-409.
- 7. Rastogi PN; Knowledge Management and Intellectual capital: the New virtuous, Reality of competitiveness. Human Systems Management, 2000; 19(1): 39-49.
- 8. Kalling T; Knowledge management and the occasional links with performance. Journal of Knowledge Management, 2003; 7(3): 67-81.
- 9. Muhammad N, Rahman BA, Abd Rahman WZ, Idris AR, Sabri SM, Jusoff K; Knowledge management practices (KMP) and academic performance in Universiti Teknologi Mara (UITM) Terengganu, Malaysia. World Applied Sciences Journal, 2011; 12: 21-26.
- 10. Kidwell JJ, Vander Linde KM, Johnson SL; Applying corporate knowledge management practices applying corporate in higher education. Educause Quarterly, 2000; (4): 28-33.
- 11. Quink U; An Exploration of knowledge management and intellectual capital in a nonprofit organization context, master thesis, the Queensland University of Technology, 2008.

- 12. Zaied NH, Hussein SG, Hassan MM; The Role of Knowledge Management in Enhancing Organizational Performance. I.J. Information Engineering and Electronic Business, 2012; 5: 27-35
- 13. Kiessling TS, Richey RG, Meng J, Dabic M.; Exploring knowledge management to organizational performance outcomes in a transitional economy. Journal of World Business, 2009; 44(1): 421-433.
- 14. Mills A, Smith T; Knowledge management and organizational performance: a decomposed view. Journal of Knowledge Management, 2011; 15(1): 156-171.
- 15. Suzana R, Kasim R; The Relationship of Knowledge Management Practices, Competencies and the Organizational Performance of Government Departments in Malaysia. International Journal of Human and Social Sciences, 2010; 5(4): 219:225.
- Ali Zwain AA, Teong LG, Othman S; Knowledge Management Processes and Academic Performance in Iraqi HEIs: An Empirical Investigation. International Journal of Academic Research in Business and Social Sciences, 2012; 2(6): 273-293.