EFFECT OF KNOWLEDGE MANAGEMENT SKILLS ON ACADEMIC ACHIEVEMENT OF STUDENTS AT HIGHER SECONDARY LEVEL IN PUNJAB GROUP OF COLLEGES ISLAMABAD, PAKISTAN

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Abstract: Knowledge management is a new arising field. It is the ability of collecting, analyzing, storing and sharing of information in an effective way. Effective knowledge generates by conducting good educational activities and by generating innovative ideas, all these are effectively possible when there is knowledge management skill. The topic of the study was relationship of knowledge management skill and academic achievement of students at higher secondary level. There were three objectives, three research questions and one hypothesis. The objectives of the study were; to explore knowledge management skills of higher secondary students, to explore the academic achievement of higher secondary students and to find out relationship of knowledge management skill and academic achievement of students at higher secondary level. There is significant relationship between knowledge management skills and academic achievement of students at higher secondary level. The research design of this study was descriptive and quantitative in nature. Survey technique was used. Questionnaires were distributed among students through personal visit. Population of the study was Punjab College students. The populations were taken through college record and were 280 and sample size as 162. Data was analyzed by using SPSS version 20 through Pearson correlation. It was concluded from the findings that the significant value is 0.05 which revealed that there is a significant relationship between Knowledge management skill and academic achievements of students. As there is a significant relationship so, the teachers will come to know about this skill and they will focus to enhance this skill in students. It is recommended for higher secondary schools and teachers to make students aware about this skill and develop these skills in them for better achievements. It is recommended for future researcher that this study may also be done at university students to get more knowledge about knowledge management skill.

Keywords: knowledge, management, students, organization, skill

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Introduction

The study is about knowledge management skill and its relationship with academic achievement of students at higher secondary level. Many studies were already conducted on knowledge management but mostly at organizational level. The purpose of the study was to check knowledge management skills among students and its relationship with academic achievements. Knowledge management is believed to improve the efficiency, effectiveness, operational scale, and productivity of organizations through advanced technologies, reveal tacit knowledge of organizations and be useful in problem-solving and decision making and humanitarian organizations in the public and private sectors and even in international charities. Knowledge management as a discipline surpasses goals and is not limited to knowledge, but rather focuses on creating, consolidating, disseminating, and applying knowledge in order to achieve the best achievements of the world Sentence Goals (Dhamdhere, 2015). Davenport and Prusak (2000) concluded that knowledge-derived knowledge, like information-derived information, recommends proposing that its explanation have all of the characteristics that make knowledge valuable in organizations; In addition, they concluded that knowledge is a fluid mix of framed experiences, values, contextual information, and expert knowledge that provides a framework for assessing and incorporating new experiences and information (Davenport and Prusak, 1998). Knowledge and its management have an impact on the performance of universities, knowledge management in organizations have a long history, it is always valuable that institutions manage their knowledge correctly, so there is no getting around knowledge management. The question posed for Pakistani universities is how to manage their knowledge to gain a competitive advantage in the modern age.
Sood and Rane (2015) have examined the uses and advantages of knowledge management in technical education and believe that knowledge management can minimize the existing gap between institutes and industry through fluid demand and supply from a technological and operational point of view. Furthermore, they have classified the need, application, and benefits of knowledge management in technical institutions.

Furthermore, Nawaz and Gomes (2014) identified several benefits of knowledge management for facilitating higher education insights in different ways like Knowledge management can support faculty members, students, and alumni of the staff in the learning process. Knowledge Management shortened the time for research activities. Knowledge management promotes cooperation between the various departments in the interdisciplinary research process.

There are many skills of students which effect on academic achievement of students. One of the most important skills is knowledge management skill. Knowledge management is a new arising field in the academic achievement. A human effort is the main source of knowledge generation. Effective knowledge generates by conducting good educational activities and by generating innovative ideas etc., all these are effectively possible hen there is knowledge management skill. Knowledge management skill includes capturing of knowledge, knowledge acquisition, storage of knowledge and sharing of knowledge. Every student needs to improve their activities in order to gain sustainable competitive advantages. For this purpose, knowledge management skill is very important. Thus, the problem under investigation is to study the effect of knowledge management skills on academic achievement of students at higher secondary level. For this purpose, following research objectives were made: to explore knowledge management skills of higher secondary students, to explore the

academic achievement of higher secondary students, to find out relationship of knowledge management skill and academic achievement of students at higher secondary level.

Methods and Materials

This study was conducted to investigate effect of knowledge management skills on academic achievement of students at higher secondary level. As this research was quantitative in nature so it came under the paradigm of positivism. The research design of this study was survey type and was descriptive in nature. Population of the study was Punjab College students. In this study the accessible population was the Pre medical students of two branches of Punjab College Islamabad. The populations were taken through college record and were 280 and sample size was 162. The population of pre medical students of Aabpara branch was 100 and Punjab College, Hill House Complex H-11 branch was 180. To carry out this research 1st year and 2nd year pre medical students from two branches of Punjab Colleges Islamabad was selected. Convenient sampling was used. The sample size was taken according to L.R Gay Table. Questionnaires were used for data collection of the study. The statements were about knowledge management skill in students .5 Likert scales was used to measure the instruments. Data was collected through personal visit of researchers. The data was analyzed using SPSS Version 20 through Pearson correlation.

Results and Discussions

Findings of the quantitative study were discussed according to the analyzed data:

Relationship between knowledge management skills and academic achievement of students were significant at 0.05 levels which revealed that there was a significant relationship between knowledge management skills and academic achievements of students at higher secondary level. It means hypothesis was rejected.

Table 1: Correlation between knowledge management and academic achievements of students at higher secondary level

Correlations

		Percentage in previous class	KNOWLEDGE MANAGEMENT SKILL
Percentage in previous class	Pearson Correlation	1	.028
	Sig. (2-tailed)		.721
	N	162	162
KNOWLEDGE MANAGEMENT SKILL	Pearson Correlation	.028	1
	Sig. (2-tailed)	.721	
	N	162	162

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

Table 1 revealed that Pearson r value = .028 which was found to be significant at 0.05 level. Thus it revealed that the relationship between knowledge management skills and academic achievement of

students was significant. So, there was a positive relationship between knowledge management skills and academic achievements of students at higher secondary level. It means hypothesis was accepted.

The academic achievements of higher secondary students were;22.2% students lies between 60-70%, 21.6% students lies between 71-80%, 29.6% students lies between 81-90% and 26.6%students lies between 91-100%. Table shows that most of the students lie between 81-90%.

Table 2: Academic achievement of students

Values of Percentage	frequency	percentage
60-70	36	22.2
71-80	35	21.6
81-90	48	29.6
91-100	43	26.5
Total	162	100

Table 2 shows the academic achievements of students.22.2% students lies between 60-70%, 21.6% students lie between 71-80%, 29.6% students lie between 81-90% and 26.6% students lie between 91-100%. Table shows that most of the students lie between 81-90%.
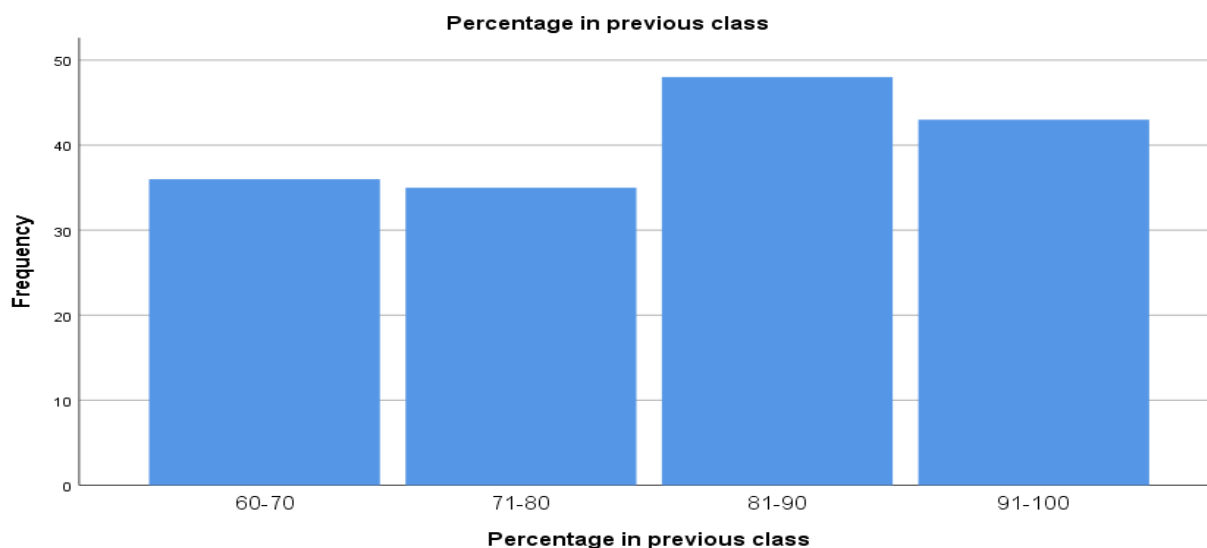

Figure 1: Graphical representation academic achievements of students

Conclusions

This study was about the relationship of knowledge management skill and academic achievement of higher secondary students. This study was conducted on two branches of Punjab College's Islamabad. The study was delimited to pre medical students of Punjab College. The findings of the study showed

that Relationship between knowledge management skills and academic achievement of students were significant at 0.05 level which revealed that there was a significant relationship between knowledge management skills and academic achievements of students at higher secondary level so hypothesis was rejected. The findings of the study illustrate that knowledge management skill is one of the most important skills and it plays a very important role in academic achievement of students. By keeping in view, the conclusions, it is recommended that Higher Secondary Schools and teachers are may provide awareness among students about the importance of knowledge management skills and for the authorities of higher secondary schools and stakeholders to organize different seminars and other programs in order to highlight the importance of knowledge management. It is further recommended for future researchers that this study may also be conducted at university students and at the head of schools and colleges to know about the Knowledge management practices done in their schools and colleges to get more general results.

Acknowledgment

We would like to thanks Allah Almighty and Prophet Muhammad (SAW) for the blessings and providing an opportunity to complete our field work. We hereby express our wholehearted thanks to our supervisor Dr. Shamsa Aziz for her sincere counseling and continuous support for conducting this research as well as for providing necessary information regarding the field work especially in writing this research report. There are many people who we should thank for helping us during this entire work both emotionally and professionally specially our parents and friends for their kind cooperation and encouragement which helped us in completion of this work. We would like to thank all the participants who made it possible for us to collect the valuable data. our thanks and appreciation also go to the people who directly and indirectly helped and made it possible to do our research project.

Declaration of Interest Statement

The authors declare that they have no conflict of interests.

References

Anantatmula,V.S., (2008). Leadership role in making effective use of KM. VINE, 38(4): 445-460.

Asoh, D. A., Belardo, S., & Crnkovic, J. (2007). Assessing knowledge management: Refining and cross validating the knowledge management index using SEM techniques. *International Journal of Knowledge Management*, 3(2), 1-30.

Cavell, S. (2002). Knowing and Acknowledging: Must We Mean What We Say? (Cambridge University Press, Cambridge), 238–266.

Davenport & Prusak., L. (1998). Working Knowledge: How Organizations Manage What They Know. Harvard Business School Press, Cambridge, MA.

Dhamdhere, S. (2015). Knowledge Management Practices in Education: Indian Scenario.

Duffy, J. (2000). The KM technology infrastructure. Information Management Journal 34(2); P62-66.

Gurteen, D. (1998). Knowledge, creativity and innovation. *Journal of Knowledge Management,* 2(1), 5–13.

Gates, B. (2000). Remarks by Bill Gates. Intel eXCHANGE e-Business Conference San Francisco, Calif. October 12.

Gibb, A A. (2005). Towards the entrepreneurial university. Entrepreneurship Education as a lever of change.

Grey, D. (1996). What is knowledge management. In The knowledge management forum (p. 5)

Kiessling, T. S., Richey, R. G., Meng, J., & Dabic, M. (2009). Exploring knowledge management to organizational performance outcomes in a transitional economy. *Journal of World Business*(44), 421–433.

Kogut, B., Zander, U. (1992). Knowledge of the firm, combinative capabilities, and the replication of technology. Organization Science 3 (3), 383–397.

Koskinen, K., Pihlanto, P.(2008). Knowledge Management in Project-based Companies An Organic Perspective. Palgrave Macmillan, New York

Lee, C., & Yang, J. (2000). Knowledge value chain. The Journal of Management Development, 19(9/10), 7

Mass, S. & Testa, S. (2009). A knowledge management approach to organizational competitive advantage: evidence from the food sector. *European Management Journal.* 27(2). pp129-141

Nawaz, M. N., & Gomes, A. M. (2014). Review of knowledge management in higher education institutions

Nonaka, I., von Krogh, G.(2009). Tacit knowledge and knowledge conversion: controversy and advancement in organizational knowledge creation theory. *Organization Science* 20 (3), 635–652

Petrides, L. A. & Nodine, R. T. (2003). Knowledge management in education-defining the landscape. The institute for the study of knowledge management in education, Half Moon Bay.

Ramachandran, S., Chong, S., Wong, K. (2013), "Knowledge Management Practices and Enablers in Public Universities: A Gap Analysis, Campus-Wide Information Systems", 30(2): 76-94

Rowley, J. (2000): Is higher education ready for knowledge management? *International Journal of Educational Management,* 14(7), pp325-333.

Sallis, E., & Jones, G. (2002). Knowledge management in education: Enhancing learning & education. London, UK: Kogan Page Ltd.

Stuart, T.E.(2000). Interorganizational alliances and the performance of firms: a study of growth and innovation rates in a high-technology industry. *Strategic Management Journal* 21 (8), 791–811.s

Sood, M. A., & Rane, M. A. (n.d.). Application Areas of Knowledge Management in Higher Education

Ungaretti, A. S., & Tillberg-Webb, H. K. (2011). Assurance of learning: Demonstrating the organizational impact of knowledge management and e-learniang. In J. Liebowitz, & M. S. Frank (Eds.), Knowledge management and e-learning (pp. 41–60).

Zack, M. H. (1999). Developing a knowledge strategy. *California Management Review,* 41(3), 125-145.