

Investigating the Relationship between Philosophical Mindedness with Achievement Motivation and Academic Performance in Students

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ABSTRACT

The study aimed to determine the relationship between philosophical mindedness with achievement motivation and academic performance of postgraduate students of Birjand University. The population of this descriptive correlational study includes 461 postgraduate students of Birjand University in the academic year 2012-13 in which 210 students were finally selected as sample using stratified sampling and Krejcie and Morgan's table. Data collection tools included philosophical mindedness and Hermans's Achievement Motivation questionnaire. In order to measure the students' academic performance their GPA were used. Results of the data analysis showed that the philosophical mindedness (including penetration, comprehensiveness, and flexibility components) has a significant positive relationship with achievement motivation, but there was no significant relationship between philosophical mindedness (including penetration, comprehensiveness, and flexibility components) with academic performance.

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1. Introduction

Academic life is one of the most important aspects of one's life which plays a determining role in the entire period of one's life. Decline in school performance of students and pupils is one of the fundamental problems of individual's academic life and educational system particularly in higher education level of every country. (Zahrakar, 2007). In addition to huge economic losses, this phenomenon also distorts the mental health of students. By decline in school performance we refer to reduction in academic performance of the learner from a satisfactory level to an undesirable level. There are various factors that affect the

academic performance of the people. The pedagogists classify them into four categories: individual factors, school factors, family factors and social factors. Among individual factors, one of the factors influencing academic performance is motivation (Phares & Trull, 1997).

"Motivation is a process that is involved in provocation, direction and reliability of behavior. For instance, motivation is used to demonstrate why an organism is sleeping rather than being awake and active, or why it focuses on a task but ignores the other.

Psychologists have noted the need to focus on motivation in education because of its influencing relationship with learning new skills, strategies and behaviors (Yousefi et al., 2009). Achievement motivation is one of the characteristics that psychologists have

used to explain and describe people's performance which consists a model of devising, implementing and feelings that is consistent to relevant, internal, and superior standards in an attempt to achieve to a type of superiority (Biabangardi, 2005).

In a study done by Bernard, Zhank and Kalong (2002) it was found that thinking styles are positively related to achievement motivation (Kadivar et al., 2010).

Achievement and academic performance of students at the university is not only dependent on their ability but also to their mindset and achievement motivation (Wender, 1995).

Among the individual factors, mindset and mentality are variables that can affect academic performance. Most pedagogists and psychologists believe that the thought of people plays an important role in their progress and performance (Safanya, 2011).

Based on the attribution theory Wiener (1994) believes that the thought (perception and interpretation) of students about the causes of success and failure is considered the main determinant of achievement motivation and academic performance (Estaki et al., 2005). The relationship between thinking and achievement motivation has drawn much attention to itself in recent years.

Research has shown that certain thinking styles can be employed as a significant predictor of student achievement motivation and performance and the philosophical mindedness which is one of the thinking styles is not an exception (Kadivar et al., 2010). Philosophical mindedness refers to the capabilities and features of mind that helps people to think and judge correctly. In addition to being a branch of studies, philosophy can provide a framework and methodology for thinking. Hence, philosophy is able to expand thinking ability and create unity between thought and action (Shariatmadari, 2011). Philosophical mindedness is responsible for regular reviews of the common sense assumptions which these are all in return the basis of thought and practice, and in this case, a philosophy can be considered a type of practical theory for individuals (Javidi and Aboutorabi, 2010). Abdolmaleki et al. (2008) view the philosophical mindedness as a kind of mental activity which missions to help people think deeper about the results of their daily actions, and act wisely. A person with a philosophical mind demonstrates characteristics which can be grouped in three related dimensions i.e. comprehensiveness, penetration and flexibility (Behrangi, 2003). This person will always try to extend "comprehensiveness" to his ideas, and view issues in relation to a vast field and long-term goals. This characteristic seeks to foster human so that they could resist against immediate pressure and specific cases and look at issues based on long-term objective. In this line it is necessary for individuals to gain and use their creative extension power. To achieve this purpose, they should be patient in theoretical deep thoughts (Shariatmadari, 2011).

Penetration is the second dimension of philosophical mindedness, which makes individuals to deeply study the ideas and phenomena. A person who possess the second dimension of the philosophical mindedness questions what the others take for granted or do not ask about. And in this way they enhance the chance to move beyond the limitations of ignorant fanatism, personal bias and stereotypical imagination. Being released of the coercion of apparent affairs, the basic ideas and thoughts appear as the key to solve problems in a wide range (Behrangi, 2003).

The third dimension of philosophical mindedness which is flexibility deals with innovation, and creativity and just like creativity it may always face a barrier. Most people are affected by environmental, emotional and psychological stress and undergo mental ossification hence may not respond appropriately to a situation (Alagheband, 2010). Numerous studies have been conducted in relation to the philosophical mindedness.

When scholars, experts and pedagogists are in pursuit of the best goal for education (high academic performance and achievement motivation), thinking becomes mainly one of the priorities (Shoarinezhad, 2001). For example, Kadivar et al (2010) in a study titled as "the relationship between thinking style and self-regulation with achievement motivation" founded that thinking style has a positive and significant relationship with achievement motivation. Estaki et al., (2005) in another study titled as "the relationship between thinking styles and achievement motivation with academic achievement" showed that there is significant relationship between thinking styles (executive, legislative and internal) with achievement motivation, also Golshekeh et al., (2010) in another study showed that there is a significant positive relationship between achievement motivation and thinking style. In another study done by Zhank and Kalong (2002) thinking styles had a positive relationship with achievement motivation (Kadivar et al., 2010)

Cross believes that thinking styles can be the reason for the different performance of individuals. People who have a high philosophical mindedness learn to work in difficult conditions, don't get disappointed, and show high performance in all fields, also those who have a high philosophical mindedness indicate an intense "interest" to the subject of their study, and their major (Behrangi, 2003).

Drucker (1985) believes that individuals have flexibility in offering and using philosophical mindedness. The main common ground of existing approaches in education is that the final result of a good idea and a philosophical mindedness seems be able to be a high academic performance and motivation for progress (Wellington and Wellington, 1960). Therefore, the main problem of the research is the question that what is the relationship between the philosophical mindedness of students, achievement motivation, and academic performance?

Research Methodology

This study is a descriptive correlational study. The statistical population of the present study consists of Birjand University postgraduate students who were admitted in September of the year 2011, which included 461 subjects (223 females and 238 males) who were studying in the Academic year 2012-13. Due to the size of the population which was 461 people, to measure the research sample, using the Krejcie and Morgan's table the optimal rate was equal to 210, who were selected according to the stratified sampling method and the number of population of each faculty. Given that in the present study the philosophical mindedness, achievement motivation and academic performance is examined in different fields and Birjand University has 6 faculties, therefore the postgraduate students were selected from each faculty according to the proportion of its population. The students' GPA is used to estimate and measure their academic performance. In this study, to measure students' philosophical mindedness the philosophical mindedness questionnaire is used which is developed and implemented by Soltani (1996) and re-implemented by Zaki (1998) and Mortezaei moghaddam (2001). It measures three components of (comprehensiveness, flexibility and penetration). The cronbach's alpha coefficients used for reliability measurement of the philosophical mindedness was obtained 0.78 by Bahari (2006). Zaki (1998) used the test-retest and obtained correlation coefficients 0.68 to evaluate the reliability of this questionnaire. Also Hermans's achievement motivation questionnaire was used to measure achievement motivation. After the pilot implementation and analysis of the questions of this questionnaire, 29 items which had a significant correlation with the total test score were selected out of 92 items. Khadivi et al (2006) reported the reliability coefficient of achievement motivation test on a sample with the

size of 93 subjects as 0.84 using Cronbach's alpha. In this study the reliability was obtained 0.81.

Findings

Descriptive data shows that the sample of the participants consisted of both male and female subjects. To investigate the first hypothesis of the study, entitled as "there is a relationship between the philosophical mindedness (including the components of penetration, comprehensiveness and flexibility) and achievement motivation." Data was analyzed using Pearson's test, the results are presented in Table 1.

In the second step the penetration variable enters into the prediction equation resulting in an increase in the coefficient of determination to 0.069, finally the comprehensiveness variable was added to the prediction equation and coefficient of determination reached 0.082. In other words, every element of philosophical mindedness could predict achievement motivation.

To investigate the hypothesis that there is a relationship between the philosophical mindedness (including the components of penetration, comprehensiveness and flexibility) and academic performance the Pearson correlation coefficient was used, the results of which are shown in Table 4.

Table 4: Correlation between philosophical mindedness (including the components of penetration, comprehensiveness and flexibility) and academic performance of postgraduate students

		Philosophical mindedness and achievement motivation				Components of Philosophical mindedness					
						Penetration		Comprehensiveness		flexibility	
Philosophical mindedness	P	R	P	R	P	R	P	R	P	R	P
0/000	0/000	0/27	0/000	0/29	0/000	0/25	0/000				

Table 1: Correlation between philosophical mindedness and achievement motivation of postgraduate students

		Components of Philosophical mindedness			
		Penetration	Comprehensiveness	flexibility	achievement
Philosophical mindedness	P	0/88	0/79	0/72	0/000
Penetration	P		0/79	0/72	0/000
Comprehensiveness	P			0/72	0/000
flexibility	P				0/765

The results showed that there is a significant positive relationship between the philosophical mindedness and achievement motivation of postgraduate students ($r = 0.34$ and $P < 0.01$), and there is a relationship between all aspects of philosophical mindedness and achievement motivation.

To determine the contribution of the philosophical mindedness and its components in predicting achievement motivation stepwise linear regression test was used (Tables 2 and 3).

Table 2: Summary of the significance test of achievement motivation prediction model by philosophical mindedness

Variable	R	R ²	Adjusted R ²	F	P
Philosophical mindedness	0/346	0/12	0/115	29/28	0/000

Table 3: Summary of the significance test of achievement motivation prediction model by components of philosophical mindedness

Components of Philosophical mindedness	Step	R	R ²	Adjusted R ²	F	P
Flexibility	p 1	0/25	0/06	0/05	14/01	0/000
Flexibility+ Penetration	p 2	0/27	0/07	0/06	16/57	0/000
Flexibility + Penetration + Comprehensiveness	p 3	0/29	0/08	0/08	19/65	0/000

The results showed that philosophical mindedness is generally able to predict 11.5% of the variance of achievement motivation. Also for the model in which the components of philosophical mindedness were predictor variable, at the first step flexibility variable was entered into the equation and explained 0.05 of the changes in achievement motivation

The results showed that there is no significant relationship between the philosophical mindedness and academic performance of students. Also relationship of none of philosophically mindedness aspects was significant with the academic performance.

Discussion and Conclusion

The research results suggest that there is a relationship between philosophical mindedness and its dimensions with achievement motivation. Madandar Arani (1991), Talebpour and et al., (2002) and Ching & Chowan (2004) found in their research that thinking styles increase the students' achievement motivation. Their findings are to somewhat consistent with this hypothesis (given that the philosophical mindedness is one of the thinking styles). Also Kharghanian (1993) found in his study that those teachers who work with managers with high philosophical mindedness have a higher spirit and motivation to work and progress. This finding is somewhat consistent with the findings of this hypothesis (Nazem et al., 2010).

Omidvar (2012) in a study that examined the relationship between achievement motivation and critical thinking found that achievement motivation has a positive and significant relationship with critical thinking. Moreover, the findings of Kadivar et al., (2010), Yadegar Khandani (2008) and Nazem et al., (2010) are consistent with this hypothesis. These people concluded in their studies that thinking style significantly contributes to the prediction of achievement motivation, in interpreting this finding, it can be stated that, in fact, what seems to be important in philosophical mindedness is the students' thinking rules and format towards their life problems, aims and motivations, and this issue covers a huge part of their attitude and performance of activities. Concerning the result that the dimensions of the philosophical mindedness (penetration, comprehensiveness and flexibility) don't have a significant positive relationship with academic performance of students of Master's program, Pirmohammadi et al (2010) in a study that examined the relationship between thinking styles and learning approaches with academic achievement of male and female students and showed that there's no significant relationship between thinking styles with academic achievement and that the results are consistent with this hypothesis. Moreover, the results of

this hypothesis are consistent with the research of Pirmohammadi et al., (2010) and Khaledan and Abkar (2009). In interpreting these findings, Zhang (2006) argues that thinking styles are not related to talent, ability and academic performance but they are related to how people prefer to use their ability, thus learners with similar abilities may have different styles (Rezaei, 2009).

The result that shows there is a significant positive relationship between achievement motivation and academic performance of the postgraduate students is consistent with the results of the research done by Tamannayifar and Gandomi (2011). Their results indicated that the students with high achievement motivation compared to those with low achievement motivation, have more perseverance in carrying out their assignments and have a better performance in tests.

In interpreting this finding, it must be said that when learners choose their actions based on their intrinsic interest, they will naturally focus more on it and spend more power to do those activities, compared to when they are forced to choose an activity or do that by external reasons. Additionally, individuals with achievement motivation tend to rely more on their own judgment. This leads them to focus on "self-activity" and don't think to the quality and quantity they want to receive and therefore gain higher success.

References

- Abdolmaleki, J., Yousefi Afrashteh, Rashid, Z.; Abdolmaleki, S., Mohammadi, N, Ziabi, L. (2008). Designing and evaluating causal development model: analysis of perceived parental practices and academic motivation and academic achievement. *Journal of Family and research*, 2 (4), 45-57.
- Bahari, S (2006). The relationship between Philosophical mindedness of managers with their performance. *New Thoughts on Education*, 1 (4), 45-54.
- Behrangi, MR (2003). Educational and Institutional management. Tehran: Kamal Tarbiat Publication.
- Biabangard, E, (2005). The relationship between self-esteem, achievement motivation and academic achievement of third grade high school students in Tehran. *Journal of Psychological Studies*, 1 (4 and 5), 5-18.
- Ching, Y. S., & Chowan. L. (2004). The Relationship among creative, critical Thinking and Thinking Style in Taiwan ltinght School Students. *Journal of Instructional Psychology*, 31(1) ,33-45.
- Estaki, M., Koushki, Sh, Vaez, E. (2005). The relationship between thinking styles and achievement motivation with academic achievement of students in mathematics. *Journal of Psychology*, 5 (12), 93-105.
- Golshekveh, F., Ahadi, H.; Enaiati, M., Askari, P.; Heydari, A., and Gholamreza., P. (2010). The relationship between thinking styles, achievement motivation, academic achievement and creativity with students' entrepreneurship. *New findings in Psychology*, 2 (4), 105-118.
- Javidi Kalateh Jafarabadi, T., Abu Torabi, R (2010). Philosophical mindedness and leadership style of higher education system (case of study: Ferdowsi University of Mashhad). *Educational Studies and Psychology*, 11 (1), 211 -234.
- Kadivar, Parvin; Javadi, MJ, and Sajdyan, Fatima. (1389). The relationship between thinking and self-motivated progress. *Psychology*, 5 (11), 34-47.
- Khaledan, A., Abkar, A (2009). The study of the amount of philosophical mindedness of athletic trainers and its relationship to some personal characteristics. *Knowledge Management*, 11 (41, 42), 147-159.
- Khadivi, A., Daneshvar, Z., Mirzaei, N. (2006). Relationship between manager's achievement motivation with the rate of teacher's participation in decision-making of Oroomieh high schools. *Journal of Educational Science*, 2 (5), 83-115.
- Mortezaie Moghaddam, M. (2001). The impact of managers' philosophical mind on their manner of decision-making in Ferdowsi University of Mashhad, Master's Thesis, University of Mashhad.
- Madandari Arani, A. (1991). Investigating achievement motivations and academic achievement in successful students of Isfahan University in order to improve higher education programs. Master Thesis in Educational Psychology. Isfahan University, Faculty of Educational Sciences..
- Nazem, F., Yadegari, F., Hasoumi, T., and Ghaedmohammadi, MJ (2010). Philosophical mindedness of managers in different regions of the Islamic Azad University. *Journal of New Thoughts in Educational Sciences*, 5 (4), 11- 23.
- Ommidvar, S. (2012). Investigating the relationship between students' critical thinking with achievement motivation of postgraduate students of Birjand University. Curriculum planning, Master's Thesis. Birjand University.
- Phares, E.S.T. & Trull, T.J. (1997). *Clinical psychology: concepts, methods and profession*. Pacific grove, CA: Brook // cole Salovey, P. & Mayer, J (1990). Emotional intelligence imagination, cognition and personality, (9),185-211.
- Pirmohammadi, Gh.,Khodayi, A, Yousefi, H.; Shariati, F., and Dasta, M. (2010). The relationship between thinking styles and learning approaches with academic achievement of male and female students. *Journal of Teaching and Learning*, 2 (1), 69-94.
- Rezaei, A. (2009). The role of epistemological beliefs, thinking styles, strategic learning in academic performance. - *Psychological Scientific-Research Journal of Tabriz University*. 4 (16), 188-204.
- Soltani, I. (1996). Measuring philosophical mindedness of managers, *Tadbir Scientific-Research Journal*. 62.
- Shariatmadari, A. (2011). Principles of education. Tehran: Amir Kabir publication.
- Shoari Nezhad, A. (2001). *General Psychology*. Tehran: Toos
- Safania, A. (2011). The effect of training philosophy and principles of physical education on philosophical mindedness of students. *Journal of Educational Psychology*, 21 (7), 45-55.
- Talebpour, A., Noori, A., and Molavi, H. (2002). The effects of cognitive training on the locus of control, achievement motivation and academic achievement of students, the *Journal of Psychology*, 6 (1), 18-29.
- Tamannayifar, MR, and Gandomi, Z. (2011). Relationship between achievement motivation with academic achievement in students. *Journal of Educational Strategies*, 4 (1), 15-19.
- Wellington, C. B. & Wellington, J. (1960). *Teaching for Critical Thinking*. New York McGraw-Hill Book Company, Inc. 44(4), 92-110.
- Wender, P. H. (1995). Attention-deficit hyperactivity disorder in adults. *New York :Oxford University Press*, 8(3) 122-140.
- Yadegari Khandani, F., and Mohammadi, H. (2008). Investigating the components of philosophical mindedness in the management of the Prophet (PBUH). *Management Thought*, 2 (2), 191-225.
- Yousefi, A., Ghasemi, Gh.; and Firouznia, S. (2009). The relationship between academic motivation and academic achievement of students of Esfahan University of Medical Sciences. *Iranian Journal of Education Medical Sciences*, 1 (9), 79-85.
- Zaki, M (1998). Motivation in educational organizations. *Insight Journal*, 10 (28-29), 174-191.
- Zahrakar, K (2007). Investigating the relationship between the components of emotional intelligence and academic performance. *Applied Psychology*, 2 (5), 92-95.