Study of Student Success Indicators based on the Viewpoints of the Students of Mazandaran University of Medical Sciences

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ABSTRACT

Background: One of the performance measures of any educational system is the degree to which students learn their education. Academic achievement includes the acquisition of a set of skills and abilities that are acquired during the course and in decision making and the various issues of leadership of individuals. A variety of factors affect the academic success of students. The present study aims to investigate the successful student’s point of view from students of Mazandaran University of Medical Sciences in 2016-2017. Materials and methods: This cross-sectional study was conducted with an analytical approach. 595 students from all faculties of Mazandaran University of Medical Sciences and Health Services who were studying in the second semester of 2016-2017. To collect data, a researcher-made questionnaire made 144 questions, “Student Success Index” with 18 areas of reading, writing, speaking skills, listening skills, learning styles, memory, reading skills, critical thinking skills, motivation, self-esteem, personal relationships, conflict resolution, health, time management, Financial Management, Personal Purposes, Work Planning and Support Resources, each of which includes 8 fields. The Mann–Whitney U test and Kruskal-Wallis test used for analysis. Results: There is a meaningful relationship between auditory skills, reading, creative thinking and critique, motivation, personal relationships, conflict resolution, time management, personal goals, work planning, sources of support and School. (P<0.05). Also, there is a significant relationship between the dimension of personal goals and educational level (P <0.05). In terms of personal dimensions, PhD students had lower levels than the average. Conclusion: Empowering human resources through education is possible. Obviously, with the increase in the efficiency of universities and higher education institutions, one can take a major step in the development of the country. It is suggested that in order to improve the quality of these skills among students, the teaching strategies for learning these skills should be included in the student’s curriculum, or by conducting workshops on the use of these strategies during the study period for students for improving and developing it. Keywords: academic success, academic performance, students, comment, scale, Mazandaran.

1. INTRODUCTION

Educational effectiveness has always been an important attention of attention in higher education research and policy (1). With the increasing range of students attending university, there is a growing interest in the factors forecasting academic performance (2). Literature distinguishes three complexes of factors that affect university achievement. Firstly, factors related to characteristics of the education system and study financing. Secondly, Factors related to how institutions organize their education. Finally, these concern student characteristics. The effects on achievement were examined. Dutch first-year university students filled in a self-report questionnaire on motivation and deep information processing. Further, student ratings provided information on quality of courses. Finally, information on quantity of courses, in terms of number of contact hours was obtained through study guides. Multilevel analyses showed that ability, motivation, quality of assessment and the numbers of self-study hours, active hours and passive hours, affected achievement (3). The factors that influence achievement can be divided into three complexes of factors (4). Since human resources are the most valuable investment of each nation, the advancement and development of each country’s social, economic and cultural
background depends on the training of specialist forces and, ultimately, on the growth of science and the increase in the level of publicity of the people of that community (5, 6). The question why certain students decide to failure while others decide to continue has been a starting-point for many studies in higher education (4, 7-12). Whatever the proportion of people educated in a society is higher than the total workforce, the productivity level in that society will generally increase, and the supply of skilled and expert human resources is one of the factors of the progress of each society (13). The main mission of the educational systems is to train the human resources necessary for this progress and the university plays a very important role as the most important scientific base for the development of expert, well-informed and experienced specialists (5, 6, 14). Students’ academic achievement is of great importance in their future success, and the lack of attention to this essential category and consequently the academic failure will reduce the level of scientific knowledge and efficiency of students in the current society. Success is said to be the answer or the action in which the person reaches the goal, or, success is a definitive step towards the goal, but in terms of education and educational situations, success is defined as the degree to which the individual in recognition of his abilities, he deserves satisfaction in his advancements (15). Academic achievement includes the acquisition of a set of skills and abilities that are acquired during the course of study and in decision making and various issues of guidance of individuals (16). In education and in educational settings, success is a degree of efficiency that a person justifies satisfaction due to his abilities in his progress (17). Various factors affect students’ academic achievement. Some of these factors include family background, interest in the field of study, socioeconomic status, intelligence, ethnicity and race, social capital within the family, self-control and family support, self-efficacy beliefs, mental health, study strategies, parenting education, Features professor, educational background and age (18). Also, having objective, appropriate emotional conditions, motivation, interest and satisfaction is effective on academic achievement (19). Factors in the application of individual skill in time management are also important factors for academic and non-academic success (16). One of the other important variables that affects academic achievement is public health, which has a significant impact on all aspects of human personality and how its various behaviors are manifested (20). Evidence shows that mental health is effective on students’ academic status (19). Providing mental health can also increase the level of creativity and academic ability of learners (19, 21). What strategies do students use when they study for their classes? Some of the study strategies, such as the retrieval of text content and accelerated learning for exams, have been approved jointly by students (22, 23). Even so, they may not always have effective learning. When students report their strategies, other strategies, such as self-assessment, are shown to be fully effective (24). Of course, not all students reported using the same strategies; there are individual differences between them, according to their study habits.

Bjork (2001) concluded that students will follow the tips, such as finding out the type of exam at the end of the term, note taking, summarizing the notes and adding new examples to it, spacing between the intended hours for study, the shift of study, study over the semester and so on. They can have better performance at the university (25).

Academic success shows that students are successful after graduation and during employment, which in addition to their positive individual role, will be beneficial to the social dimension (26). Conversely, failing to study leads to numerous personal and social problems and diverts from achieving the goals of the educational system (27). Success is a way, not an objective, and in this way many effective factors are involved (26).

According to the preface, the present study aims to investigate the successful student’s point of view from the students of Mazandaran University of Medical Sciences in of 2016-2017. It is hoped that the results obtained could be used to measure successful student indicators and provide them with educational resources.

2. MATERIALS AND METHODS

This cross-sectional study was conducted with an analytical approach. 595 students from all faculties of Mazandaran University of Medical Sciences and Health Services who were studying in the second semester of 2016-2017. To collect data, a researcher-made questionnaire made 144 questions, “Student Success Index” with 18 areas of reading, writing, speaking skills, listening skills, learning styles, memory, reading skills, critical thinking skills, motivation, self-esteem, personal relationships, conflict resolution, health, time management, Financial Management, Personal Purposes, Work Planning and Support Resources, each of which includes 8 fields. The Mann–Whitney U test and Kruskal-Wallis test used for analysis.

Results for reliability using Cronbach’s alpha coefficient, respectively, in the 18 areas of reading 0.74, writing 0.75, speaking skills 0.80, listening skills 0.74, learning styles 0.80, memory 0.82, reading skills 0.76, critical thinking skills 0.83, motivation 0.83, self-esteem 0.81, personal relationships 0.81, conflict resolution 0.82, health 0.65, time management 0.80, Financial Management 0.78, Personal Purposes 0.80, Work Planning 0.79 and Support Resources 0.79 and a total of 0.97, which has had a satisfactory level of reliability.

In determining the students’ opinion about the successful student index, the criteria for measuring and rating the data were “very high, high, moderate, very low”, which was considered to be 5-10 in the Likert Attitude Scale, respectively. The response scores of each person to the interval questionnaire range from 144 to 720. Regarding the absence of assumption of normalization of data, the comparison of the mean score in the two groups was performed using the U Mann-Whitney test and in some groups with Kruskal-Wallis test at a significant level of 5% and the application of SPSS version 18 was used.

3. RESULTS

Of the 595 students studied, 66.3% were female, 41% were from Allied Medical Sciences and 62.5% were BSc degree. The average student age was 21.5 ± 4.07 . The mean scores of successful student score in the field of personal goals with the highest score 3.96 ± 0.58 and in the time management environment had the lowest score 3.43 ± 0.68 obtained by the
students. Spearman correlation coefficient showed a significant positive correlation between student’s mean score and reading areas (r = 0.21, p < 0.005), auditory skills (r = 0.108, p < 0.05), motivation (r = 0.17, p < 0.005), management (r = 0.11, p < 0.05) and financial management (r = 0.11, p < 0.05). The results showed that the average score of successful student index in the level of variables of academic level (BS and MA, General Ph.D.) was significant only in the dimension of personal goals (P = 0.029). The comparison of the score of the successful student indexes in 18 areas studied in male and female students is reported in Table 1. It should be noted that in this study, the mean comparison was carried out at the 7th level of the world, and given the high degree of results, only the two colleges with the lowest and the highest average were reported in Table 2.

4. DISCUSSION

In this research, the students’ viewpoints regarding the student’s success rate have been studied. The successful student index had a positive and significant correlation with reading, auditory skills, motivation, time management and financial management with student’s average. This finding was consistent with the study of Firooznia et al. (2009) which showed that there was a significant correlation between motivation and students (28). Several studies have studied and emphasized the relationship between academic motivation and academic achievement (29). The study of Hejazi et al shows that there is a positive and significant relationship between academic achievement and variables such as motivation (30).

The results of this study showed that there was no significant correlation between creative thinking with the mean score and this finding was consistent with Yadollahi et al (15).

Also, findings showed that there was no meaningful relationship between reading skills and mean score. The results of the study of Hosseini et al. (31) and Shiva et al. (32) showed that there is a significant relationship between the mean score and the reading skills, which are not consistent with the results of this study (32).

In this study, the average of reading skills, critical thinking and creative thinking as well as conflict resolution in male students was higher than female students, which was statistically significant. This finding was not consistent with the study of Badeleh in the dimension of study (33). In Abdokho-
daie and Ghaffari’s study, female students’ study skills were better than male students (34). In this study, there was no significant difference between the learning style with gender and faculty, this finding was consistent with a small study (35). Theoretical study of Salehi et al. also did not show a significant relationship in this finding (36). The results showed no meaningful relationship between self-esteem and gender. In Tamannaifar et al. self-esteem in female students was significantly higher than male students (37). Educational systems are seeking to increase their efficiency and quality, which is important in this regard to the academic achievement. Academic progress is the ability to prove academic achievement in the acquisition of the outcome for which it is planned (38). Students’ academic achievement is affected by several factors (39-48). Researchers say that high school students usually have enough motivation to study, and lack of interest in the field of study can lead to academic failure (39). A study on Indian American students showed that inadequate study skills were effective in student dropout (40). Generally, each person with higher self-esteem evaluates his ability to deal with problems and perform duties assigned at a desirable and high level. Also, the research emphasizes the relationship between time management and stress reduction and, consequently, an increase in academic achievement (41).

On the other hand, reading skills will lead to a better understanding of the content. The more the student is able to use the writing skills, the more he writes the article will be more coherent and the first message will be clearer for himself. In the same way, verbal and speaking skills are also effective in summarizing, critically speaking and addressing the main issue in academic achievement. Dickson et al. (1994) believed that interpersonal interactions, listening and listening skills are very important (42). In addition, the attention of instructors and educational planners to the learning styles in different levels of education will facilitate learning and learning processes (43). The learning styles that the habits of processing information received by individuals is one of the factors influencing learning and, consequently, the student’s academic achievement (44). Educational thinkers agreed that critical thinking is not another factor in success. It should only be one of the basic goals of education, but it should be an integral part of education. Every level of study is critical because critical thinking is that the thought that analyzes, evaluates, selects, and applies the best solution to humans, and this is the very core that the world needs today (45). Absolutely, capital students The main focus of the educational system is the importance of giving this human capital a special priority that must be strengthened. Human resource development through education is possible. Evidently, with the increase of the returns of universities and higher education institutions, development can The country has taken a major step. Also, the returns of universities and higher education institutions, through education is possible. Evidently, with the increase of the returns of universities and higher education institutions, development can The country has taken a major step. 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5. CONCLUSION

It is suggested that in order to improve the quality of these skills in students, the teaching strategies for learning these skills should be included in the student’s curriculum, or by conducting workshops on the use of these strategies during the study period for students to improve and develop it. It is suggested that in order to improve the quality of these skills among students, the teaching strategies for learning these skills should be included in the student’s curriculum, or by conducting workshops on the use of these strategies during the study period for students to improve and develop it.

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