Chapter 10

Influence of Artificial Intelligent-Based Vocational Courses on Self-Concept of Students

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ABSTRACT

Artificial intelligence (AI) these days is becoming a more popular choice among students because of its large scope in different fields of life and career. The chapter is based on how the vocational courses of AI have its effect on the students’ self-concept. The two groups of students have been taken for the study: one group having vocational trade as AI and basics (150 students) and another group having non-vocational subjects (150). The chapter has two goals: to compare level of self-concept of students with AI-based vocational trade subject and students without any vocational courses and to analyze gender difference among students in relation to self-concept. The samples were selected by simple random sampling. T-test analysis showed that the two groups had significant difference between their levels of self-concept. The students with AI-based vocational subject have a higher self-concept than that of students of non-vocational subjects.

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1. INTRODUCTION

The term ‘Self Concept’ itself is explanatory of its meaning as it gives reflection of self. Among the non-cognitive aspects of personality disposition self-Concept has been considered to be a key point in the understanding of human behaviour and it has been found to be an important factor affecting various areas of development and achievement including social development and academic achievement. As pointed out by (Roggers, 1994), much of the child’s academic behaviour is influenced by his ‘Self Perception’. There are several terms those are virtually synonymous with Self-Concept; among them are “Self-image”, “the Ego”, “Self understanding”, “Self perception”, and “Phenomenal self”. The Self-Concept is not inherited; rather, it is development formation in the psychological make-up of the individual. The Self-Concept formed through experiences with his environment and are influenced especially by environmental reinforcement and significant others. A person’s awareness of himself is established largely by the acceptance and rejection of the other people. The adolescence is the age when a child starts viewing itself as more matured and responsible person. Graduation year is the transition phase in which a student prepare himself for his/her career. And, type of higher education depends upon the subject choices in intermediate classes. The subjects of study influence the personality characteristics of children. Sometimes, some subjects have positive impact on personality traits but sometimes they may have negative impact. Artificial Intelligence courses these days are becoming more popular choice among students because of its large scope in different field of life and career. Especially the school students are fascinated with the AI more. Sometimes, having smart and artificially intelligent devices becomes status symbol among themselves. A person develops his Self-Concept on the basis of what he thinks, the significant others think of himself and it affects his behavior in turn. This is known as reflected Self-Concept. It has been seen that the individuals from disadvantaged group have poor Self-Concept they take negative feeling about their performances in different fields, like students’ academic performance can be poor due to low Self-Concept. In the present chapter Self-Concept of adolescents has been measured. Adolescence is a period of life with its own peculiar characteristics and problems. Hence for deep penetration into their perception, their own physical, social, temporal, educational, moral, and intellectual sphere of Self-Concept need to be explored. Proposing that the self is the result or by product of social interchange which makes it necessary to examine not only the “systems of communication and relationship that becomes built-into the self but also the concept in which such communications suited (Gerger, 1994). The picture, an individual has of himself is called the concept of self. He may possess honesty, confidence, extravagance etc. These several traits form a personality but the Self-Concept covers beliefs, convictions and values; further, it includes the attitudes as
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