Computer Attitude of Prospective Teachers in Relation to Emotional Intelligence

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Abstract: The study was intended to predict Computer Attitude of prospective teachers of government aided and private college on the basis of their Emotional Intelligence. The sample consisted of total 200 students; 100 students being selected randomly from each government aided and private college of Ludhiana city. Computer Attitude Scale (CAS) by Khatoon and Sharma (2011) and Emotional Intelligence Test (EIT) by Zainuddin and Ahmed (2011) were used to collect the data. The results of the study showed significant positive relationship between Computer Attitude and Emotional Intelligence of prospective teachers, also between Computer Attitude and Emotional Intelligence of prospective teachers studying in government aided college and private college.

Keywords: Computer Attitude, Emotional Intelligence, Prospective Teachers

1. Introduction

The use of computer-based technology for the delivery of educational content is growing rapidly. Knowledge of the computer related skills and techniques widens one’s learning horizon and potential that in turn promotes a positive feeling towards the computer (Houtz & Gupta, 2001). Successful integration of information and communication technology in any educational institution depends on the competence and the attitude of teachers towards the role of such technologies in teaching and learning. Thus, for the effective use of such technology, teachers must have the competence and right attitude towards technology (Kandel, 2005). Emotions also play a significant role in guiding and directing our behaviour. Emotions are important in establishing a positive learning environment especially in human computer interaction (Cristescu, 2008). Emotions in the learning process motivate learning, facilitate self-regulated processes and produce different problem solving processes. Thus, learner’s emotion not only affects the learning process but also has significant impact on computer usage (Goldsworthy, 2002). Earlier studies have also shown that positive and negative emotions are the psychological basis of cognition and behaviour changes within computer based or web learning and further direct the learner behaviours (Kang, Kim & Chong, 2011; Kim, 2008; Lee & Song, 2007; O’Regan, 2003). Bessiere, Newhagen, Robinson, and Shneiderman (2006) also remarked that frustration is the emotional outcome of a negative technology experience. Students with higher emotional intelligence were found to be innovative and highly motivated (Mayer, Roberts, & Barsade, 2008) as compared to those who possess immature levels of emotional intelligence who may be inclined to perceive learning with technology negatively, as it requires self-discipline, independent effort, maturity, time management skills, and positive attitudes (Berenson, Boyles & Weaver, 2008). Thus, there is a need to provide conducive environment for pre-service teachers to experience success in using the computers for making teaching and learning more effective.

2. Attitude

Attitude is a mental state of readiness influencing individual’s response to an object or a situation. Positive attitude of an individual enhance the learning process whereas negative attitude leads to resistance towards in any task. Wang, Chen and Shi (2007) supported the multidimensionality concept of attitude towards computers. Since, attitudes are learnt; they can be changed with experience of stimulus objects and with social rules or institutions (Binder & Niederle, 2007). The construct “attitudes” was divided into four different variables as computer liking; computer anxiety; computer confidence and perceived usefulness of the computer by Loyd and Gressard (1984).

3. Computer Attitude

A person’s performance with the technology and the satisfaction drawn with the experience is determined by his/her attitude towards computers. Individuals having positive computer attitude will be able to use computers in a better way and perform better as compared to the ones having negative computer attitude as they will be reluctant to use computers. Computer attitude relates to users’ interaction with computer hardware, computer software, other persons relating to computers, and activities that involve computer use. Brown and Inouye (1978) suggest that exposure to computer-related devices may be a factor in determining one’s attitudes toward computers. Computer attitudes are influenced by different variables like knowledge about computers, gender (Bebetsos & Antoniou, 2009), liking (Yildirim, 2000) and computer experience (Deniz, 2007). Khine (2001) found that there exists a significant relationship between computer attitude and its use in institutions for pre-service teachers and also for serving teachers in the affective attitude, general usefulness, behavioural control, and pedagogical use (Yuen & Ma, 2002). Whithrow (1999) highlighted that computer-related attitudes influence students’ desire to use computers, enrol in computer-related subjects and their choice of career path. Students’ computer-related attitudes are also directly related to their prior experiences and use of computers (Levine & Donitsa-Schmidt, 1997). Users’ attitudes toward
computers influence the future use of and behaviour towards computers (Woodrow, 1991) and acceptance of computers (Selwyn, 1997).

**Emotional intelligence**

Emotional intelligence is the ability to recognize your emotions, understand what they are telling you, and realize how your emotions affect people around you and your perception of others. Salovey and Mayer (1990) defined emotional intelligence (EI) as “the ability to monitor one’s own and others’ feelings and emotions, to discriminate among them and to use this information to guide one’s thinking and actions.”

Goleman (1995) gave five domains of emotional intelligence as:

- **Self-awareness**: It is the capacity for understanding one's emotions, one's strengths, and one's weaknesses. The ability to recognize a feeling as it is happening is fundamental to emotional intelligence. If you are unable to notice your emotions, you can be overwhelmed and can flounder at the mercy of these strong feelings.

- **Managing emotions**: It is the ability to maintain an even keel or bounce back quickly from life’s upsetting developments builds on the preceding skill. You want to have a sense of control over your emotions so that you can deal with them appropriately.

- **Self-motivation**: It is the ability to marshal our emotions for the accomplishment of any sort of goal. For creative tasks, focus and mastery are important skills, and emotional control is essential.

- **Recognizing the emotions of others**: People’s skills are based on a capacity for empathy and the ability to stay tuned to the emotions of others. Empathy kindles altruism and lies at the basis of professions that deal with caring for others, such as teaching, management, and the healing arts.

- **Handling relationships**: Interpersonal effectiveness is dependent on your ability to manage the emotions of others. Brilliant projects and innovative insights are often never realized because of a lack of social competence and leadership skills.

Thus, competency in all these aspects is needed by an individual for his success in different aspects of life.

Petrides and Furnham (2001) described emotional intelligence as “a constellation of emotion-related self-perceived abilities and dispositions located at the lower levels of personality hierarchies”. Emotional intelligence has also been found to be related to students’ academic achievement, behaviours and attitudes (Salami & Ogundokun, 2009; Wong, Wong & Chau, 2001). Thus, emotional intelligence means management of emotions. It refers to individual differences in the perception, processing, regulation and utilization of emotional information. Positive and negative emotions of a person affect his ability to perform any task as a person with high emotional intelligence will be emotionally more stable, motivated, and self-confident will perform better in a task as compared to the one having low emotional intelligence.

4. Review of Related Literature

4.1 Computer Attitude and Emotional Intelligence

Earlier studies have indicated that emotion was an indicator of the degree of efforts computer users exerted on specific tasks (Rozell and Gardner, 2000). A significant relationship between Internet experience and the emotional state of computer users has also been established (Lazar, Feng & Allen, 2006).

Kumar, Muniandy and Yahaya (2012) studied the relationship between emotional intelligence and attitudes towards computer in the students of final-year diploma of electronic engineering (computers) in polytechnics in the northern region of Malaysia. Data was collected from 42 engineering students. Results of this study showed that the relationship between emotional intelligence and attitude towards computer was positive but very weak. Significant difference were found when gender was compared as female student’s emotional intelligence was negatively correlated with attitude towards computers, whereas male students correlation was more positive and stronger.

Behnke (2012) of Purdue University, United States examined the relationship between students’ attitudes towards computer based instruction and their emotional intelligence. The emotional intelligence of 33 postsecondary hospitality students was assessed using Bar-On’s EQ-i: S. The results showed that as students’ ESI increased, their attitude towards the computer-based instruction also increased. Students with average-high ESI expressed significantly more positive attitudes towards the instruction than those with low-average ESI.

Adegbotun, Ajelabi and Oyewusi (2011) investigated the relative and combined contributions of cognition and emotion to Nigerian undergraduates’ level of computer frustration in online environments. The 1972 students who participated in the study were randomly selected from the two state-owned universities in Ogun State, Nigeria. The research findings revealed that the students’ computer frustration negatively and significantly correlated with cognition but positively and significantly correlated with emotion.

Vuorela and Nummenmaa (2004) studied what events cause emotional reactions when students use a web-based learning environment (WBLE) in their studies, and how the emotions experienced while using the WBLE, emotion regulation strategies and computer self-efficacy are related to collaborative activities in the environment. Data was collected from undergraduate students from seven Finnish universities who participated in a five-week national web-course of the program in educational use of information and communication technologies. Participants’ ages ranged from 18 to 52 years. The results showed that both emotional reactions and their effective regulation affect student participation in collaborative activities in a WBLE and using reappraisal as emotion regulation strategy led to increased activity in the environment. There was a moderately strong association between students’ computer self-efficacy and mean arousal.
5. Emergence of the Problem

Emotions play a vital role in affecting users’ attitude towards computers. There is very little research available on the effect of emotional intelligence on learning with technology (Al-Faouri, 2011). The relative lack of consideration of emotional factors has been discussed as a partial reason for high drop-out rates in the e-learning context (Im, 2007; Rowe, 2006). Thus, present study was taken to study the computer attitude of prospective teachers in relation to their emotional intelligence. The review of literature cited above shows that very little research is available on computer attitude and emotional intelligence and the studies showing relation between computer attitude and emotional intelligence have been conducted in foreign countries like Malaysia (Kumar, Munirandy, & Yahaya, 2012), U.S.A (Behnke, 2012) and Nigeria (Agbatogun, Ajelabi, & Oyewusi, 2011). Thus, this gap can be filled by examining the computer attitude of prospective teachers in relation to their emotional intelligenceso as to develop emotionally intelligent teachers who are motivated towards the use of technology in teaching and learning thereby making it more effective.

6. Objectives

- To investigate the significance of relationship between Computer Attitude and Emotional Intelligence of prospective teachers.
- To study the significance of relationship between Computer Attitude and Emotional Intelligence of prospective teachers studying in government aided colleges.
- To investigate the significance of relationship between Computer Attitude and Emotional Intelligence of prospective teachers studying in private colleges.

7. Hypotheses

H01a: There will be no significant relationship between Computer Attitude and Emotional Intelligence of prospective teachers.

H01b: There will be no significant relationship between Computer Attitude and Emotional Intelligence of prospective teachers studying in government aided college.

H01c: There will be no significant relationship between Computer Attitude and Emotional Intelligence of prospective teachers studying in private college.

8. Sample

Sampling is an essential part in the field of research providing generalizations on the basis of small proportion of the population and produces precise and accurate results. Two stage randomization technique was used in this study. Sample consisted of total 200 students; 100 students being selected randomly from each government aided and private college of Ludhiana city.

9. Tools

- Computer Attitude Scale (CAS) by Khatoon and Sharma (2011).
- Emotional Intelligence Test (EIT) by Zainuddin and Ahmed (2011).

10. Results and Discussion

10.1 Relation between Computer Attitude and Emotional Intelligence

Table 1: Relation between Computer Attitude and Emotional Intelligence of prospective teachers (N= 200)

<table>
<thead>
<tr>
<th>Variables</th>
<th>r</th>
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<tbody>
<tr>
<td>Computer Attitude with Emotional Intelligence</td>
<td>0.253*</td>
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</table>

*Correlation is significant at 0.05 level (0.197)

Table 1 reveals that the value of correlation between Computer Attitude and Emotional Intelligence of prospective teachers is 0.253. This value is positive and significant (p<0.05). Therefore, it can be concluded that Computer Attitude has significant positive relation with Emotional Intelligence among prospective teachers studying in government aided college. Thus, hypothesis H02a which states that “There will be no significant relation between Computer Attitude and Emotional Intelligence of prospective teachers”, is rejected.

Table 2: Relation between Computer Attitude and Emotional Intelligence of prospective teachers studying in government aided college (N = 100)

<table>
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<th>Variables</th>
<th>r</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Attitude with Emotional Intelligence</td>
<td>0.234*</td>
</tr>
</tbody>
</table>

*Correlation is significant at 0.05 level (0.197)

Table 2 reveals that the value of correlation between Computer Attitude and Emotional Intelligence of prospective teachers studying in government aided college is 0.234. This value is positive and significant (p<0.05). Therefore, it can be concluded that Computer Attitude has significant positive relation with Emotional Intelligence among prospective teachers studying in government aided college. Thus, hypothesis H02b which states that “There will be no significant relation between Computer Attitude and Emotional Intelligence of prospective teachers studying in government aided college”, is rejected.
Table 3: Relation between Computer Attitude and Emotional Intelligence of prospective teachers studying in private college (N = 100)

<table>
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<th>Variables</th>
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</thead>
<tbody>
<tr>
<td>Computer Attitude with Emotional Intelligence</td>
<td>0.279*</td>
</tr>
</tbody>
</table>

*Correlation is significant at 0.01 level (0.256)

Table 3 reveals that the value of correlation between Computer Attitude and Emotional Intelligence of prospective teachers studying in private college is 0.279. This value is positive and significant (p<0.01). Therefore, it can be concluded that Computer Attitude has significant positive relation with Emotional Intelligence among prospective teachers studying in private college. Thus, hypothesis H_{2c}, which states that “There will be no significant relation between Computer Attitude and Emotional Intelligence of prospective teachers in private college”, is rejected.

11. Discussion

The result is well supported by the studies conducted earlier by Kumar, Muniandy and Yahaya (2012), Behnke (2012) and Al-Faouri (2011). Studies also show that students who had high emotional intelligence were intrinsically motivated and developed more positive attitude toward learning (Salami, 2010).

12. Conclusions

- There exists significant positive relationship between Computer Attitude and Emotional Intelligence of prospective teachers.
- There exists positive and significant relationship between Computer Attitude and Emotional Intelligence of prospective teachers studying in government aided college.
- There exists significant positive relationship between Computer Attitude and Emotional Intelligence of prospective teachers studying in private college.

13. Educational Implications

The results of the study reveal significant positive relationship between Computer Attitude Emotional Intelligence. It is thus suggested that to improve the Attitude towards Computer of Prospective Teachers, conditions conducive for the development of Emotional Intelligence must be created. The improvement in Emotional Intelligence will lead to the improvement of Computer Attitude.

References


International Journal of Science and Research (IJSR)
ISSN (Online): 2319-7064

Volume 5 Issue 4, April 2016
www.ijsr.net
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distance education. The Journal of Educational Information and Media, 17(1), 133-152.


