INSTILLING GOOD VALUES AMONG THE TECHNICAL AND VOCATIONAL BACHELOR'S DEGREE STUDENTS DURING THEIR PRACTICAL TRAINING IN THE LABORATORY

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Abstract

Good values are the foundation values which lead to the behaviour and important to be instilled to each individual particularly to the students. However, based on the previous researches, good values are less practiced among the students especially during their practical training in the laboratory. Therefore, this research is conducted to identify how far the students and lecturer have instilled the good values during the teaching and learning processes in the laboratory. About 226 Bachelor of Technical and Vocational Education’s students are the respondents in this research. Questionnaire is the major instrument in this research beside interview and observation as the backup methods. The findings of this research indicate that students instil and practice all the good values involved in this research. However, it was found out that only several number of the lecturers instil and practice the good values to the students during the teaching and learning processes in the laboratory. So, researcher have offered a few suggestions to ensure the lecturers and students do instil and practice the good values such as: The Authority of Universiti Tun Hussein Onn Malaysia (UTHM) need to do scheduled observation to ensure lecturers and students do instill and practice good values during teaching and learning processes.

Keywords: Good values, practical training and University of Tun Hussein Onn Malaysia (UTHM).

1 INTRODUCTION

The downfall of moral and crisis of values faced by the new generation were caused by the lack of good role model that could be used as the guidance to choose the correct path and lifestyle towards perfection, humility and high morality. Moral and attitude issues among the new generation especially universities’ students in Australia is on the rise [1]. Almost all of them are involved in crimes and these attitude problems affect their result in examination, less control and attention from the parents. These kinds of problems could be avoided with an education system that stress on the good values to hinder the teenagers from bad influences. Therefore, finding of the research at the University Of Bahrain stated that education plays an important role in fostering good values among the students [20]. Through education, students could be instilled with good values and will lead to the creation of new generation of leaders with good values and attitude, and vision.

Good values are the foundation to create peaceful individuals and community, free from the social illnesses and morality crisis [3]. The good values are defined as the good behaviour or attitude that acts as a foundation in life. These values need to be nurtured and practiced to guarantee good quality of social life and good morality, and could free individuals and the community from the social problems [4]. These good values are important elements to be instilled inside each individual particularly to the students. Good values need to be the core that could added in the curriculum and other educational systems in the school. Good values are the pillars to humanity values that could create dimensional character building, inner strength, morality strength, social and spiritual. The goal of instilling these good values through education is to create people and residents with good values and high morality.

2 PROBLEM’S BACKGROUND

Good values still could not be satisfactory instilled among the students in school based on the disciplinary problems reported by the researcher and local newspapers. This research is conducted due to the awareness of the importance of creating people with good behaviour, and the importance of the educators’ role in fostering the students’ behaviour. The question is how the good values could be
instilled effectively in teaching and learning processes? Educators must prepare themselves with effective strategies to overcome the disciplinary and behaviour problems among the students. If the problems are not overcome, the future of the country is being jeopardized due to the increasing number of problematic students who will become our country’s residents.

Schools in the West especially in America have taken proactive measures to guide the students to behave in good and positive manner, and to include good values as part of the education system [5]. The need to instil and practice good values in the community has been discovered for quite some time. The increasing disciplinary problems are well-known both in the schools and the higher learning institutions.

Instilling good values is not only important for the students, even the educators also need to instil good values in themselves. A previous research identify the level of instilling good values of leadership among the schools’ principals in Sri Aman, Sarawak [6]. The findings of the research found out that only three good values possessed by the respondents while other good values are still in the low level of instilling among the respondents. It showed a clear view that educators also have not instilled good values in themselves totally. If the educators failed to instil good values in themselves first, then no wonder why the students failed to instil good values which would lead to bad behaviour and attitude.

The practice of good values among the students plays a very important role. However, to justify whether each student in the higher learning institutions practices good values or not, is not a simple task. The problems of truancy, less of respect to the lecturers, late submission of assignments, various traffic offences, fighting, doing immoral activities like adullery, are normally among these students. These problems should have not existed because the students have been exposed with good values even before they enter the higher learning institutions.

The pattern of learning in the higher learning institutions is more challenging and needs some patience and instills high level of good values especially during teaching and learning processes in the laboratory which prioritize the safety of the students. However, there are students who do not abide by the safety rules in the laboratory and this would cause problems in handling the laboratory’s management [7]. Another researcher [8] also agreed with the statement in her research that good values have not been instilled in a satisfactory level among the students based on the disciplinary problems reported by researchers and the local newspapers.

In a research conducted [9], it was found out that the level of instilling and practicing good values among students was very low especially among the students who work with practical training in the laboratory. The research was concentrated on the differences of practicing good values among students during teaching and learning processes in the lecture rooms and in the laboratory. The findings of her research found out that the level of practicing good values during teaching and learning in the laboratory is very low.

The students should possess high level of good values especially during practical training in the laboratory. Beside that, the lecturers also should be aware and should instill good values during teaching and learning processes especially in the laboratory. This action will ensure the students’ safety is guaranteed during practical training in the laboratory.

3 PROBLEM STATEMENT

Lecturers and students have forgotten to instil good values especially during the practical training in the laboratory and it was proven in the previous researches which found out that there were numerous accidents involving students during practical training in the laboratory. Therefore, this research is conducted to determine how far the good values have been instilled in the students during practical training in the laboratory and how far have the lecturers have instilled the good values in the students during teaching and learning processes in the laboratory.

4 RESEARCH QUESTION

Research question is divided into several segments, such as:

a) Have the students instilled good values in themselves during practical training in the laboratory?

b) How far the lecturers have instilled the good values in the students during teaching and learning processes in the laboratory?
c) Are there any differences of instilling good values among the laboratories of the Technical Education's Faculty in University of Tun Hussein Onn Malaysia?

5 RESEARCH OBJECTIVE

Research objectives are to:

a) Identify whether the students have instilled good values in themselves during practical training in the laboratory or not.
b) Observe how far have the lecturers have instilled the good values in the students during teaching and learning processes in the laboratory.
c) Identify whether there are any differences of instilling good values among the laboratories of the Technical Education's Faculty in Universiti Tun Hussein Onn Malaysia

6 METHODOLOGY

This research is conducted in Universiti Tun Hussein Onn Malaysia (UTHM) which involves the students of Bachelor Of technical and Vocational Education. The population of the research is 550 students of Bachelor Of technical and Vocational Education in UTHM. Because the population is too big, the collection of data is done through simple random sampling method. The researcher has allocated the amount of sampling for this research which is 226 students of Bachelor Of technical and Vocational Education that are involved with the practical training in the laboratory.

The selected research instruments are questionnaire, interview and observation. The questionnaire contains Section A and B. Section A is to collect data about the respondents' demographic information such as year of study, gender, courses, and the number of times the students do the practical training. Section B contains items of questions using the Likert Scale. Section B consists of 6 segments which measure the level of instilling good values like hardworking, cooperation, physical and mental cleanliness, honesty, independent and high morality in the students during practical training in the laboratory.

Interview is conducted randomly among 5 students of Bachelor Of technical and Vocational Education, 3 lecturers which teach in the laboratory, and 2 different laboratory technicians in Technical Education Faculty in UTHM. The interview items are constructed by the researcher that suited the research questions constructed earlier.

The researcher conduct the observation in the laboratories which involves in this research to identify how far the instilment of good values such as hardworking, cooperation, physical and mental cleanliness, honesty, independent and high morality in the students during practical training in the laboratory. The researcher also conducts observation to identify how far the lecturers have instilled good values to the students during teaching and learning processes in the laboratory.

7 DATA ANALYSIS

The conducted analysis was based on the research question. The collected data were analyzed using the Statistical Packages for Social Science software Version 12.0

Fig. 1 : Data Analysis Method Based on Research Question

<table>
<thead>
<tr>
<th>No.</th>
<th>Research Question</th>
<th>Data Analysis Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Have the students instilled good values in themselves during practical training in</td>
<td>Mean And Standard</td>
</tr>
<tr>
<td></td>
<td>the laboratory?</td>
<td>Standard Deviation</td>
</tr>
<tr>
<td>2</td>
<td>How far the lecturers have instilled the good values in the students during</td>
<td>Observation and Interview</td>
</tr>
<tr>
<td></td>
<td>teaching and learning processes in the laboratory?</td>
<td>(Content Analysis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>according to theme)</td>
</tr>
</tbody>
</table>
8 PILOT TEST

Reliability

The collected data were also used to obtain the Alpha Cronbach value to ensure the reliability for each constructed item. From Figure 2, it could be seen that all the good values showed Alpha Cronbach value over 0.6 and the reliability value could be accepted.

Fig. 2 : Alpha Cronbach value for Each good value

<table>
<thead>
<tr>
<th>Good Value</th>
<th>Alpha Cronbach</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Morality</td>
<td>0.815</td>
</tr>
<tr>
<td>Hardworking</td>
<td>0.771</td>
</tr>
<tr>
<td>Physical and mental Cleanliness</td>
<td>0.874</td>
</tr>
<tr>
<td>Honesty</td>
<td>0.811</td>
</tr>
<tr>
<td>Cooperation</td>
<td>0.856</td>
</tr>
<tr>
<td>Independent</td>
<td>0.790</td>
</tr>
</tbody>
</table>

All the values that were collected fulfill all the terms specified and items used had reliability level which is good and acceptable.

9 RESEARCH FINDINGS

9.1 Analysis of descriptive data findings

This section will answer the first research question:

Have the students instilled good values in themselves during practical training in the laboratory?

Fig. 3 : Mean for Each Good Value

<table>
<thead>
<tr>
<th>Good Value</th>
<th>Total Mean</th>
<th>Standard Deviation</th>
<th>Level</th>
<th>Good Value Instilment Status by the Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Morality</td>
<td>4.01</td>
<td>0.516</td>
<td>High</td>
<td>Instilled</td>
</tr>
<tr>
<td>Hardworking</td>
<td>4.06</td>
<td>0.516</td>
<td>High</td>
<td>Instilled</td>
</tr>
<tr>
<td>Physical and mental Cleanliness</td>
<td>4.01</td>
<td>0.565</td>
<td>High</td>
<td>Instilled</td>
</tr>
<tr>
<td>Honesty</td>
<td>4.01</td>
<td>0.510</td>
<td>High</td>
<td>Instilled</td>
</tr>
<tr>
<td>Cooperation</td>
<td>4.18</td>
<td>0.534</td>
<td>High</td>
<td>Instilled</td>
</tr>
<tr>
<td>Independent</td>
<td>3.98</td>
<td>0.791</td>
<td>High</td>
<td>Instilled</td>
</tr>
</tbody>
</table>

Based on the Fig. 3, it was found out that all the good values are at a high level. It showed that the instilment of good values was high and the students did instil all the high morality, hardworking, physical and mental cleanliness, honesty, cooperation and independent values during practical training in the laboratory. From six of the values that have been analyzed, it was found out that mean
value of the cooperation value was the highest (mean=4.18) with standard deviation value (SD=0.534). It was found out that standard deviation value for all the good values that have been analyzed have values below 1.00. It showed that the respondents' feedbacks were focused when they answered the questionnaire. In conclusion, the students did instil all the good values that have been analyzed in this research during practical training in the laboratory.

9.2 Analysis of observation content

In this research, observation and interview methods also have been chosen to answer the second research question.

How far the lecturers have instilled the good values in the students during teaching and learning processes in the laboratory?

From the observation, the researcher has found out that the lecturers have instilled the high morality values to the students. The lecturers have not directly told the students to practice high morality during practical training. But, based on the researcher’s observation, the lecturers always reminded the students that they are going to be the next generation of educators, and the lecturers called the students as ‘teacher’. It showed that the lecturers have indirectly instilled good values including high morality to the students.

From the aspect of hardworking values, the researcher have identified that the lecturers have always instructed the students to be serious during their practical training and to complete the practical training report within the given time. The researcher have also identified that the lecturers did encourage the students to redo their practical training using different methods. Therefore, the lecturers did encourage the students to do the practical training to improve their skills. In the end of the teaching and learning processes, the researcher has found out that the lecturers reminded the students to the next practical training classes and stressed out that the students to submit their practical training report. It could be seen here by the researcher that the lecturers always instill hardworking values in the students.

From the researcher’s observation, the lecturers only reminded the students to clean up the place where they did the practical training by instructing them to clean up, put back the tools to their original position, and arrange the seat before they leave the laboratory. While the researcher did the observation, there are students who wore sandals and slippers during their practical training in the laboratory. But the lecturers did not take any action concerning that behaviour. Instead the lecturers always stressed to the students that they are the next generation of educators who need to know every practical skill before they teach in the school. Indirectly, the researcher found out that the lecturers wanted the students to prepare themselves physically and mentally before they could be called teacher. It also showed that the lecturers have instilled good values in term of physical and mental cleanliness to the students, even if the lecturers have not said it directly.

In the beginning of the class, the lecturers stressed to the students to be honest while doing the practical training especially when using the tools in the laboratory and while recording the outcomes of the practical training. Besides, the lecturers also stressed about not using any tools in the laboratory without permission from the lecturers. The lecturers also wanted the students to complete the practical training report using the given formula. It showed that the lecturers have given the students some trust so that the students would be honest when they complete their practical training report.

From the researcher’s observation, the lecturers have always instilled good value of cooperation to the students during the practical training. Before the practical training is started, the lecturers have reminded the students to work in the group that have been allocated. During the practical training, the lecturers have stressed out to the students to give full cooperation to other group members and instructed the students to solve any problem with the group members first. In the end of the practical training, the researcher noticed that the lecturers still stressed out to the students about cooperation to complete the practical training’s report. It showed that the lecturers have instilled good value of cooperation to the students during practical training in the laboratory.

The researchers have observed early in the practical training that the lecturers have always stressed out to the students to do the practical training on their own first without the help from the lecturers. The lecturers wanted the students to be independent and not depending on the lecturers. The lecturers only observed the students did the practical training. However, during the practical training, the lecturers still help the students that have problems with their practical training. It showed that the lecturers have instilled good value of independent to the students.
9.3 Analysis of interview content

The students that have been interviewed stated only a few of the lecturers did instilled good values to the students during teaching and learning processes in the laboratory. The respondents stated that the lecturers were only concerned with the practical training without considering the good values that need to be instilled to the students during their practical training in the laboratory. The students said that the lecturers only explained about the practical training that they need to complete without instilling good values to the students. The lecturers were only concerned with the practical training and did not bother about the students' behaviour during the practical training in the laboratory. The technicians that have interviewed stated that the lecturers have instilled good values to the students especially early in the practical training. However, they also said that some lecturers were not concerned with the instilment of good values to the students.

9.4 Analysis of inferential statistic

This segment showed the result of analysis to answer the third research question

Are there any differences of instilling good values among the laboratories of the Technical Education's Faculty in Universiti Tun Hussein Onn Malaysia?

In order to see the existence of differences of instilment in the students between the laboratories in Technical Education Faculty of UTHM, the one-way ANOVA test was selected to make comparison between three or more these mean groups.

**Fig. 4 : One Way Anova Analysis Result**

<table>
<thead>
<tr>
<th></th>
<th>Total square Value</th>
<th>df</th>
<th>Square Root Mean</th>
<th>F</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between Sample</td>
<td>1.465</td>
<td>2</td>
<td>0.733</td>
<td>3.353</td>
<td>0.037</td>
</tr>
<tr>
<td>In Sample</td>
<td>48.724</td>
<td>223</td>
<td>0.216</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>50.189</td>
<td>225</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From the conducted analysis, it was found out that the significant multiplier obtain was equal to 0.037 such as stated in Fig. 4. Since the significant multiplier was less than 0.05, then the null hypothesis was rejected and brought the interpretation that the differences of instilment in the students between the laboratories in Technical Education Faculty of UTHM existed.

10 DISCUSSION

The result from the findings of instilment of good value of high morality received the highest feedback from the respondents. It showed that the respondents take care of their behaviour when they interact with the lecturers. This finding was supported by the finding from the interview with one of the lecturers who taught practical training in the laboratory. The researcher obtained some opinion from several lecturers to observe the instilment of good values in the students. The lecturers said that all the good values under research by the researcher existed among the students during their practical training in the laboratory.

The result was in accordance with the research conducted [10]. In his research, he stated that the students need to have positive behaviour such as high morality in doing something. To have positive behaviour means doing something good. This opinion was supported [11] (2001), where he said that good values like respecting each other and having good manners could create harmonious and humble behaviour. Individual's self values could be seen in two modes such as thought channelled through speech and real life behaviour [12].

Workplace is one of the suitable place to instill good value of physical and mental cleanliness [13]. An educator could instil good value of physical and mental cleanliness during teaching and learning processes whether in classes, laboratory or anywhere else. However, the result of the findings was contrast to the research conducted by Smolcic. The lecturers only instructed the students to clean the practical training place when the lesson ends. During the practical training, the lecturers were seen as not concerned about tidiness and cleanliness of the place of the practical training. The researcher
found out that the place was quite messy and some of the students even brought their bags into the laboratory. Other than that, the researcher also found out that the lecturers did not scold the students who did not wear the laboratory jacket. The lecturers were not strict in the aspect of laboratory attire and the outcome was lack of discipline among the students.

It showed that the lecturers were not concerned with the good value of physical and mental cleanliness to the students. The good value of physical and mental cleanliness is important to be instilled especially during teaching and learning processes in the laboratory. Therefore, the instilment of this value by the lecturers to the students is essential to avoid any unwanted incident.

However, during the teaching and learning processes in the laboratory, the researcher noticed that the lecturers always stressed to the students that they are going to be the next generation of educators which need every practical skill. Therefore, the students have to be serious when they do the practical training in the laboratory. The lecturers wanted the students to be prepared in terms of physical and mental before they become teachers. This will indirectly showed that the lecturers have instilled good value of physical and mental cleanliness to the students.

The lecturers are also one of the factors in the existence of the differences of instilment of good values between the laboratories. This happened because different lecturer teaches in different laboratory. From the result of the interview, the students said that not all lecturers have instilled that good values among the students. It showed that not all lecturers in the laboratory did instil good values.

According [14], during the practical training in the laboratory or workshop, the students have to be exposed to the good values in the aspect of engineering ethics. The instilment and practice of good values such as hardworking, caring for mental and physical cleanliness, high morality, independent, cooperation, and honesty are the good values' element that need to be practiced and adored by the students especially during practical training in the laboratory.

Overall, it can be concluded that the students have been instilled with good values during their practical training. Even though the students enter different laboratories, but there are good values inside them which they have practiced during the practical training in different laboratories, other than the lecturers who also played important roles in the instilment of good values to the students.

11 CONCLUSION

Overall, the researcher could conclude that the students did possess good values inside themselves. It could be seen through the result of the analysis obtained, the interview result with the lecturers, and the observation conducted by the researcher. The instilment of good values inside the students has already happened, but a few good values have not been practiced by the students. Other than that, the research found out that the lecturers did instill good values during teaching and learning processes in the laboratory. But the result of the interview by the researcher found out that there are lecturers who did not instilled good values to the students. It showed that not all lecturers did instil good values to the students during teaching and learning processes in the laboratory.

Other than that, there is different level of instilment of good values among the students between the laboratories in the Technical Education Faculty UTHM. Only three laboratories were involved in this research. The researcher noticed one of the factors of existence of different level of good values instilment maybe caused by the lecturers' role in instilling the good values to the students. This is due to different laboratories was taught by different lecturers. The different levels of instilment of good values by the lecturers could be seen as one of the factors of the existence of different levels of instilment of good values among the students.

This country needs graduates with high quality because they are next generation of future leaders who are responsible to continue our effort of developing the country. The country's need is correlated with the development of the human capital with quality and ability to become citizens who possess good personality and high integrity, and acquire excellent moral values. The development is not only in term of knowledge and skills, but also in term of spiritual and ethics with the combination of healthy mind and good manners and behaviour.

ACKNOWLEDGEMENT

1. University of Tun Hussein Onn Malaysia
2. Research, Innovation, Commercialization & Consultancy Office
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