The Influence of Peer Teaching and Cooperative Learning Models towards Students’ Self-Confidence and Cooperation in Learning Volleyball

Tite Juliantine*, Agi Rismanugraha, Dian Budiana
Program Studi Pendidikan Jasmani Kesehatan dan Rekreasi
Fakultas Pendidikan Olahraga dan Kesehatan
Universitas Pendidikan Indonesia
*juliantinetite@gmail.com

Abstract—This study aims to find out how the influence of peer teaching model and cooperative learning model of self-confidence and student teamwork in volleyball game. This research uses quantitative approach with experimental method which will get a primary data. How to obtain the data, the researcher uses an instrumentation through the dissemination of questionnaires distributed to the respondents (students) SMKN 5 Bandung who follow extracurricular volleyball. The instrument used is a self-confident instrument and instrument of teamwork. The questionnaire distributed in the form of a valid questionnaire that had been used by previous researchers. Sample method used in this research is total sampling with amount of 30 people, where 15 peer teaching model group model and 15 people group of cooperative learning model. Data analysis tools used by researchers in the form of Microsoft Excel 2013. Based on the results of research indicate that: a) peer teaching learning model has effects student self-confidence; b) peer teaching model has effects student teamwork; c) cooperative learning model has effects students’ self-confidence; d) cooperative learning model has effect on student teamwork; e) cooperative learning model has more effects on student self-confidence; and f) cooperative learning model has more effects on student teamwork.

Keywords—learning model; peer teaching; cooperative; self-confidence; teamwork

I. INTRODUCTION

Physical education promotes such important aspects as cognition, affection, and psychomotor. Thus, learning models supporting this needs to be developed. To find effective strategies and ideal learning processes, teachers need to analyzed their students’ potentials [1]. based on this thought, students need to have freedom to do self-reflection in learning [2]. Some of the mostly considered effective learning models are peer teaching and cooperative learning.

In Indonesia, students’ self-confidence and cooperative works are two of the most frequently found issues in learning, including in physical education. In the context of volleyball learning, students often doubt their own potentials as well as others’ potentials leading to their lack of optimum performance.

Peer teaching is defined as a learning model promoting students to actively involved in learning with their peers. In the class, they can discuss, interact, and ask questions with their peers so that one is a tutor to another [3]. In this model, teachers are more of a facilitator. Peer teaching has been proven to be an effective learning model in physical education since it is able to improve the academic time, physical activity, and motoric performance of students [4].

In addition, cooperative learning model is a model using instructions among small groups so that students collaborate with each other to solve a problem [5]. There are a variety of students’ background within a group to promote diversity [6].

Based on the aforementioned reasons, this study aimed to investigate the influence of peer teaching and cooperating learning models towards students’ self-confidence and cooperation at one of the state vocational high schools in Bandung, Indonesia.

II. RESEARCH METHOD

This study administered an experimental method aiming to identify a certain treatment to a certain group. The design used in this study was a pretest-posttest control group design. Table 1 shows the research design used in this study.

<table>
<thead>
<tr>
<th>Group</th>
<th>Treatment</th>
<th>Influence of the treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>O₁</td>
<td>O₂</td>
<td>O₃</td>
</tr>
</tbody>
</table>

The population in this study were a group of students joining in a volleyball extracurricular activity in a state vocational high school in Bandung, Indonesia. Through a total sampling technique, there were 30 students selected to be the sample of this study. The students were then divided into two groups comprising peer teaching and cooperative learning models as shown in Table 2.
The instrument used in this study is a questionnaire discussing the implementation of both learning models and their influence towards self-confidence and learning cooperation. In the meantime, the research procedure is conducted in the following stages.

A. Stage 1
- Choosing the topic to study
- Formulating purposes of the study
- Determining respondents of the study
- Making a letter of research permit
- Preparing the learning process
- Creating the questionnaire

B. Stage 2
- Conducting the pretest and distributing the questionnaire
- Implementing the treatment (peer teaching and cooperative learning models)
- Conducting the posttest and distributing the second questionnaire

C. Stage 3
- Collecting the data from pretest and posttest
- Analyzing the data
- Drawing conclusions

III. RESULTS AND DISCUSSION

The statistical analyses of the implementation of both learning models and their influence towards students' self-confidence and learning cooperation are presented in Table 3.

<table>
<thead>
<tr>
<th>Learning Model</th>
<th>( \bar{X}_{\text{pretest}} )</th>
<th>( \bar{X}_{\text{posttest}} )</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peer Teaching</td>
<td>230.47</td>
<td>260.13</td>
<td>29.67</td>
</tr>
<tr>
<td>Cooperative Learning</td>
<td>185.67</td>
<td>243.67</td>
<td>58</td>
</tr>
</tbody>
</table>

The results presented by Table 4 indicated that cooperative learning is more effective in promoting students' self-confidence in comparison with peer teaching. In the meantime, it has also been proven by the statistical computation in Table 4 that cooperative learning is also more effective in promoting students' cooperation in learning compared to peer teaching. This is in line with the results of a study by Rubiyanto pointing out that cooperative learning gives students more opportunities to be collaborating with their friends, either among their group members or with ones from other groups [10].

IV. CONCLUSION

Based on the data analysis, it has been found that both peer teaching and cooperative learning models are influential towards students' self-confidence and learning cooperating in the context of physical education, particularly in learning volleyball. However, cooperative learning seems to be more effective in promoting students' self-confidence and learning cooperation in comparison with peer teaching learning model. It is recommended that further researchers focus more that contributing factors of students’ self-confidence and learning cooperation in learning volleyball and other types of sport.

REFERENCES


