

# How does cooperative learning strategy with three D's encourage students science program to enhance attitude achievement and retention ?

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## Abstract

Cooperative Learning strategy to encourage students work in a small group mixed three D's teaching style in group activity. The result showed enhance student science program attitude achievement and retention in social science subject as Philosophy.

## Introduction

Science program students believed social science subject was less important than mathematics and English for their future occupation. Berger, Mackenzie, and Holmes (2020).

Even more alarming are studies showing that they do not feel social science subject is a particularly valuable or interesting part of their major. They have less attitude to learn and had effect to quiz.



On the other hand, social science subject is meant to provide a foundation that promotes successful behaviors that lead to lifelong learning. Cooperative Learning approach can gain more positive effect to student learning (Slavin 2014).

## Methodology

The purpose of this study to investigate whether there is a difference in the test scores of the treatment and control groups after exposure to the cooperative learning techniques, in Philosophy subject in term of attitude, achievement and retention.



The sample includes first year students science program from veterinary and Dentistry school separate in two group treatment and control group.

Using 3 instruments, teaching plan, attitude questionnaire and test in the topic of Ethic.

## How to used cooperative learning and three D's style

Student separated in a small group



Set up class environment to be safe, respect, support each other and class discipline

## Future studies

For future study: intervention to other subject areas and use mixed method

## Activity

### Class starting by Three D's



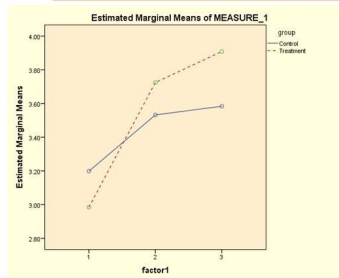
**Directing** : e teacher tells the students what to do, how to do it, and when it needs to be done

**Discussing** :encourages critical thinking and lively discussion by asking challenging in real world situation and related to the filed

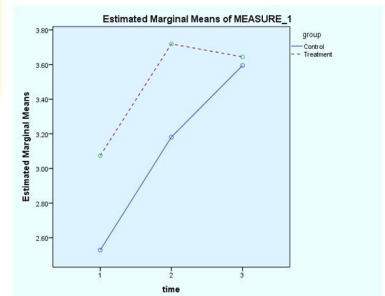
**Delegating** : empowerment, group work task

Students are involved in making decisions on assignment quiz and class reward.

## Results

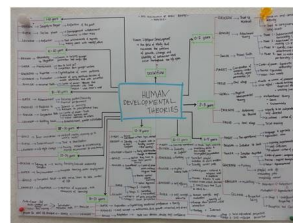


The graph shows increase attitude scores. Established there is a relationship on teamwork among student's commitment and the task are related of student's life and their major



This had shown the module created for cooperative learning had successfully improved students achievement and retention towards learning Philosophy subject

## Conclusion



### Benefit for students

1. Students enhance attitude achievement and retention
2. Gains in social/relationship skills
3. improved self-esteem responsibility and attitudes towards learning



### Benefits for teachers

1. Effective use of time
2. Opportunities to observe students at work, and to assess skills