

LESSON PLAN

A. Identity

School	: SMA N
Subject	: Physics
Grade/Semester	: X/1
Standard Competency	: 1. Analyzing natural phenomenon and its regularly in mechanical particle coverage
Basic Competency	: 1.2 Executing vector addition
Indicators	: 1. Adding two vectors with analytical methods
Time Allocation	: 1 meeting (2 x 45 minutes)

B. Learning Objectives

After learning the lesson, the students are hoped able to:

1. Determine magnitude of vector resultant with analytical methods.
2. Determine the direction of vector resultant with analytical methods.
3. Apply vector addition concept in solving problem.

C. Learning Materials

Vector addition with analytical methods

1. Vector Components
2. Magnitude of vector resultant
3. Direction of vector resultant

D. Learning Methods

Methods: Explaining, Questioning.

E. Learning Activities

1. Pre-teaching Activity
 - a. Mentioning Learning objectives
The teacher mentions learning objectives that should be understood by the students
 - b. Motivation
Have you seen the traffic sign that shown direction and distance a city or town? What is the function of the sign?
 - c. Pre-request knowledge
Before learning this topic, the student should remember about concept of vector quantity.
2. Whilst Teaching Activity
 - a. The teacher explains the concept of vector addition by using analytical method.
 - b. The teacher gives sample problem and explain to the students.

- c. After that, the teacher asks the students to solve another example. One of them makes in front of the class.
 - d. The teacher explains the application of vector addition in daily life
3. Post-teaching Activity
- a. The teacher guides the students to conclude the lesson that day.
 - b. The teacher gives students homework and reminds about the following topic.

F. Learning Resources

1. References

Glencoe. 2005. *Physics Principles and Problems*. United States: McGraw-Hill, Inc.
Halliday and Resnick. 2000. *Fundamental of Physics.pdf*
Marthen Kanginan. 2002. *Fisika SMA IA*. Jakarta: Erlangga
Sunardi dan Etsa Indra Irawan. 2006. *Fisika Bilingual 1*. Bandung: Yrama Widya

G. Evaluation

1. Technique: test
2. Form of instrument: multiple choice and essay
3. Sample instrument:
 - a.

b.

c.

Approved by Head Master

(_____)
NIP.

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