



**YOGYAKARTA STATE UNIVERSITY
FACULTY OF MATHEMATICS AND NATURAL SCIENCE**

LESSON PLAN

**RPP/MAA 319/09
1 April 2010**

1. Faculty /Study Program : Mathematics and Natural Science/Mathematics Education
2. Course / Code : Computer Programming, MAA 319
3. Credit : Theory : 2 Practice : 1
4. Semester/Time : Sem: V, Time : 2 x 100 minutes
5. Basic Competence : Students are able to compose a program to solve a problem using One-Dimensional Arrays
6. Indicator :
 - Students are able to explain the difference between One-Dimensional Arrays and other data types
 - Students are able to compose a program to solve a problem that has data type of array
7. Essential Concepts : ONE-DIMENSIONAL ARRAYS
8. Learning Activity : 19

Component	Detail Activity	Time	Method	Media	References	Character
Opening	<ul style="list-style-type: none"> • Lecturer greets the students and asks some students to tell some important points of the topic in the last meeting • Lecturer tells the objective of the todays topic 	5'	Explanation and Discussion	Computer, LCD	A:34-35 B.1, B.4	Thinking logically, critically, creatively, and innovatively
Main Activities	<ul style="list-style-type: none"> • Lecturer explains the concepts of array and its difference with other data types • Students are invited to give active participation in the discussion to find some problem that has array data type • In pair, students discuss to express the problem into array • Students share their result to others • Lecturer helps students to get the main idea of the topic 	75'	Explanation Demonstration, Discussion, practice, group work			Caring about social matters and environment
Closure	Student and lecturer concludes the topic Lecturer gives tasks	10'				

Follow up	Students are asked to study further about 2D array and find many resources about them in the Internet	10'				
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Learning Activity : 20 (practice, 1 sks practice = 100')

Component	Detail Activity	Time	Method	Media	References	Character
Opening	Lecturer greets students, tells the objective of the meeting and deliver a lab sheet	5'	Explanation and Discussion	Computer, worksheet	worksheet / quiz	Thinking logically, critically, creatively, and innovatively
Main Activities	Students practice and do exercises to compose a program to solve some problems in array	80'	Practice, by self/in a group			Caring about social matters and environment
Closure	Lecturer gives feedback to the result of students' work	10'	Explanation			
Follow up	Lecturer describes the introduction of the next material Students are supposed to read the next material in handout and explore the Internet.	5'	Explanation			

9. Assessment

Refine your program in finding the average of n data using array data type.

10. References

A. Compulsory :

Sri Andayani, 2010. Handout of Computer Programming, FMIPA UNY.

B. Additional

1. Jogiyanto, H.M. (1989). Turbo Pascal, Yogyakarta, Andi Offset
2. <http://pascalprogramming.byethost15.com>
3. <http://www.taoyue.com>
4. <http://www.geocities.com/SiliconValley/Horizon/5444/>

Yogyakarta, 23 August 2010
Lecturer,

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