YOGYAKARTA STATE UNIVERSITY
FACULTY OF MATHEMATICS AND NATURAL SCIENCE

LESSON PLAN

RPP/MAA 319/10
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 Two-Dimensional Arrays
6. Indicator :
   - Students are able to explain the difference between One and Two-Dimensional Arrays
   - Students are able to compose a program to solve a problem that has data type Two-Dimensional array

7. Essential Concepts : TWO-DIMENSIONAL ARRAYS
8. Learning Activity : 21

Component	Detail Activity	Time	Method	Media	References	Character
Opening	• Lecturer greets the students and asks some students to tell some important points of the topic in the last meeting • Some students are asked to share their idea about the next topic (in last meeting they have asked to read the material)	10’	Explanation and Discussion	Computer, LCD	A:36, B.1, B.3	Thinking logically, critically, creatively, and innovatively Caring about social matters and environment
Main Activities	• Students are invited to give active participation in the discussion to find some problem that has 2D array data type • Lecturer helps students to get the right concepts of the topic • In pair, students discuss to express the problem into 2D array • Students share their result to others in front of class	75’	Explanation Demonstration, Discussion, practice, group work			
Closure	Student and lecturer conclude the discussion	10’				

	of the topic					
Follow up	Students are asked to study the next topic and find many resources about them in the Internet	5’				

Learning Activity : 22 (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		Thinking logically, critically, creatively, and innovatively Caring about social matters and environment
Main Activities	Students practice and do exercises to compose a program to solve some problems in 2D array	80’	Practice, by self/in a group		worksheet / quiz	
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

Identify the data from your own environment that can be expressed using two dimensional array and then compose a program to manipulate them.

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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