YOGYAKARTA STATE UNIVERSITY
FACULTY OF MATHEMATICS AND NATURAL SCIENCE

LESSON PLAN

RPP/MAA 319/02
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 simple program in Pascal
6. Indicator :
   - Students are able to explain program structure in Pascal
   - Students are able to identify the identifier, constanta and variable
   - Students are able to declare the appropriate identifier, constanta and variable in a program based on the problem to be solved.
   - Students are able to compose a simple program in Pascal

7. Essential Concepts : Program Structure, Identifier, Constanta, and Variable
8. Learning Activity : 3

Component	Detail Activity	Time	Method	Media	References	Character
Opening	Lecturer describes the aim of the course and gives motivation	5’	Explanation and Discussion	Computer, LCD	A:4-8, B.2	Thinking logically, critically, creatively, and innovatively Caring about social matters and environment
Main Activities	• Lecturer explains the basic step and structure in Pascal program, identifier, Constanta, and Variable • Students get the chance to share their opinion in defining identifier, Constanta, and Variable related to a given problem • In pair, students discuss to compose a program using the previous class discussion result • two pairs of students make a group to share their discussion result • Some groups present their result • Other students give their opinion	75’	Explanation Demonstration, Discussion, practice, group work			
Closure	Student and lecturer make a conclution Lecturer gives tasks	10’				

Follow up	Students are suggested to study further about Pascal program and find many resources about them in the Internet	10’				

Learning Activity : 4 (practice, 1 sks practice = 100’)

Component	Detail Activity	Time	Method	Media	References	Character
Opening	Lecturer explains the aim of the course and give motivation	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	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	5’	Explanation			

9. Assessment

Identify the identifier, constant and variable to solve a problem in finding the length of hypotenuse of right triangle

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,

Sri Andayani, M.Kom
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