



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

LESSON PLAN

**RPP/MAA 319/07
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 that contain a looping using for-do statement
6. Indicator :
 - Students are able to compose a program that contain looping using for-to-do statement
 - Students are able to compose a program that contain looping using for-downto-do statement
7. Essential Concepts : LOOPS: for do
8. Learning Activity : 13

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 describes its relation to the next topic. 	5'	Explanation and Discussion	Computer, LCD	A:29-31 B.4	Thinking logically, critically, creatively, and innovatively
Main Activities	<ul style="list-style-type: none"> • Lecturer explains the basic concept of looping • Lecturer demonstrate a program in looping using for do statement • Students get opportunity to try and observe the result of the program • Students get another problem to be solved using for do statement • In pair, students discuss to solve the problem • Students present their discussion result • Other students give their opinion 	75'	Explanation Demonstration, Discussion, practice, group work			Caring about social matters and environment
Closure	Student and lecturer conclude the topic	10'				

Follow up	<ul style="list-style-type: none"> • Lecturer gives assignment to be solved by a group of 4 students. • Students are asked to prepare the presentation of assignment solution for next meeting 	10'				
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Learning Activity : 12 (practice, 1 sks practice = 100')

Component	Detail Activity	Time	Method	Media	References	Character
Opening	<ul style="list-style-type: none"> • Lecturer reviews of some important point in the topic • Lecturer asks students to prepare their previous assignment 	5'	Explanation and Discussion	Computer, worksheet		Thinking logically, critically, creatively, and innovatively
Main Activities	<ul style="list-style-type: none"> • Students present their assignment result • Lecturer gives feedback to the result of students' work • Students refine their program using the explanation from lecturer. 	80'	Practice, by self/in a group		worksheet / quiz	Caring about social matters and environment
Closure	Lecturer gives feedback to the result of students' work	10'	Explanation			
Follow up	Students are asked to read the next material in handout and explore the Internet.	5'	Explanation			

9. Assessment

Write down a program to find $n!$ (n factorial) using for-do statement.

10. References

A. Compulsory :

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

B. Additional

1. Jogyanto, 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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