



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

LESSON PLAN

**RPP/MAA 319/03
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 in mathematics that has various data types
6. Indicator :
 - Students are able to explain kind of data types
 - Students are able to use appropriate data types to compose a program for a given problem
 - Students are able to use appropriate operation for data types in a program
7. Essential Concepts : Assignment and Operations, Data Type
8. Learning Activity : 5

Component	Detail Activity	Time	Method	Media	References	Character
Opening	Lecturer reminds students the previous topic and relates it to today's topic	5'	Explanation and Discussion	Computer, LCD	A:9-17, B.3	Thinking logically, critically, creatively, and innovatively Caring about social matters and environment
Main Activities	<ul style="list-style-type: none"> • Students get opportunity to read the handout for a few minutes and then express their understanding of the topic • Lecturer facilitates students to get the main idea of the topic • In pair, students discuss the topic, and try to compose a program using kind of data types and operate them • Students present their idea to other students • Other students give their opinion 	80'	Explanation Demonstration, Discussion, practice, group work			
Closure	Lecturer guides student to conclude the topic	10'				
Follow up	Students, in pair, get assignment to study the next topic and prepare to present their result for the next meeting	5'				

Learning Activity : 6 (practice, 1 sks practice = 100')

Component	Detail Activity	Time	Method	Media	References	Character
Opening	Lecturer opens the class and deliver a lab sheet	5'	Explanation and Discussion	Computer, worksheet		Thinking logically, critically, creatively, and innovatively
Main Activities	Students practice and do exercises to compose a program to solve some problems	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	Lecturer describes the introduction of the next material	5'	Explanation			

9. Assessment

Specify the appropriate data type and operation for the problem of finding $n!$ (n factorial).

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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