



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

LESSON PLAN

**RPP/MAA 319/13
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 procedures
6. Indicator :
 - Students are able to explain the objective of procedure
 - Students are able to explain the difference of global and local variable
 - Students are able to compose a program that contain procedures
 - Students are able to create procedure with parameter
 - Students are able to create procedure with variable parameter
7. Essential Concepts : PROCEDURES
8. Learning Activity : 27

Component	Detail Activity	Time	Method	Media	References	Character
Opening	Lecturer explain the aim of the course and give motivation	5'	Explanation and Discussion	Computer, LCD	A:42-46, B.2	Thinking logically, critically, creatively, and innovatively Caring about social matters and environment
Main Activities	<ul style="list-style-type: none"> • Lecturer explains the objective of procedures • Students are motivated to give active participation in the discussion to create procedures for a given problem • In groups, students have further discussion about the problem • Some students are asked to present their idea in front of class • Other students give their opinion 	80'	Explanation Demonstration, Discussion, practice, group work			
Closure	Student and lecturer conclude today's topic <ul style="list-style-type: none"> • Lecturer describes the introduction of the next material • Students are supposed to read the next material 	10'				

	in handout and explore the Internet.					
Follow up	Students are told to study the next material	5'				

Learning Activity : 28 (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 functions 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 gives programming assignment	5'	Explanation			

9. Assessment

Rewrite your program to find $n!$ (n factorial) using procedure.

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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