



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

LESSON PLAN

**RPP/MAA 319/04
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 use various standard functions in Pascal to compose a program
6. Indicator :
 - Students are able to use standard function to operate numbers to compose a program
 - Students are able to use standard function to handle string to compose a program
7. Essential Concepts : STANDARD FUNCTIONS
8. Learning Activity : 7

Component	Detail Activity	Time	Method	Media	References	Character
Opening	Lecturer opens the class and asks students to recall some important points of the previous topic Lecturer asks students to prepare their presentation of today's topic	5'	Explanation and Discussion	Computer, LCD	A:17-20, B.3	Thinking logically, critically, creatively, and innovatively
Main Activities	<ul style="list-style-type: none"> • Students get opportunity to present their assignment of the topic • Other students give their opinion of the presentation • Some other groups of students get their turn to present their idea in front of class, and others give their comments • Lecturer facilitates students to get the main idea of the topic 	75'	Explanation Demonstration, Discussion, practice, group work			Caring about social matters and environment
Closure	Student and lecturer conclude the entire materials	10'				
Follow up	<ul style="list-style-type: none"> • Lecturer describes the 	10'				

	introduction of the next material • Lecturer gives programming assignment					
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Learning Activity : 8 (practice, 1 sks practice = 100')

Component	Detail Activity	Time	Method	Media	References	Character
Opening	Lecturer reviews of some important point in the topic	5'	Explanation and Discussion	Computer, worksheet		Thinking logically, critically, creatively, and innovatively
Main Activities	Students practice and do exercises to compose a program in standard function 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	Students are supposed to read the next material in handout and explore the Internet.	5'	Explanation			

9. Assessment

Write down a program to find the root of quadratic equation using ABC formula. Identify, what kind of standar function must you use in the program?

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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