



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

LESSON PLAN

**RPP/MAA 319/12
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 using Records
6. Indicator :
 - Students are able to explain the difference between Record and other data types
 - Students are able to use record data type to compose a program
7. Essential Concepts : RECORDS
8. Learning Activity : 25

Component	Detail Activity	Time	Method	Media	References	Character
Opening	<ul style="list-style-type: none"> • Lecturer greets the students • Lecturer asks some students to review the previous topic 	5'	Explanation and Discussion	Computer, LCD	A:40-41, B.1, B.3	Thinking logically, critically, creatively, and innovatively
Main Activities	<ul style="list-style-type: none"> • Lecturer explains the concepts of records • Lecturer gives example of a program using records • Students get the canche to try the program example using computer • In pair, students discuss to get the right program • Students share their result to others 	75'	Explanation Demonstration, Discussion, practice, group work			Caring about social matters and environment
Closure	<ul style="list-style-type: none"> • Student and lecturer conclude the entire materials • Lecturer gives assignment 	10'				
Follow up	Students are asked to study next topic and find many resources about them in the Internet	10'				

Learning Activity : 26 (practice, 1 sks practice = 100')

Component	Detail Activity	Time	Method	Media	References	Character
Opening	Lecturer greets students, tells the objective of the meeting and deliver a lab sheet	5'	Explanation and Discussion	Computer, worksheet	worksheet / quiz	Thinking logically, critically, creatively, and innovatively
Main Activities	<ul style="list-style-type: none"> Students practice and do exercises to compose a program to solve problem in records 	80'	Practice, by self/in a group			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 Students are supposed to read the next material in handout and explore the Internet.	5'	Explanation			

9. Assessment

Write down a program to calculate the GPA of student which has identity such as name, student_id, study program. the data includes some the name of courses have taken by student and its mark.

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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