YOGYAKARTA STATE UNIVERSITY
FACULTY OF MATHEMATICS AND NATURAL SCIENCE

LESSON PLAN

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 Enumerated Data Type and Subrange
6. Indicator   :
   ➢ Students are able to explain the difference between Enumerated data type and other data types
   ➢ Students are able to explain the difference between Subrange data type and other data types
   ➢ Students are able to use Enumerated data type to compose a program
   ➢ Students are able to use subrange data type to compose a program

7. Essential Concepts   : ENUMERATED DATA TYPE and SUBRANGES
8. Learning Activity   : 23

Component	Detail Activity	Time	Method	Media	References	Character
Opening	• Lecturer greets the students • Lecturer asks some students to review the previous topic	5'	Explanation and Discussion	Computer, LCD	A:37-39	Thinking logically, critically, creatively, and innovatively
Main Activities	• Lecturer explains the concepts of enumerated data types and subranges • Lecturer gives example of a program using enumerated data types and subranges • 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	Student and lecturer conclude the topic	10'				
Follow up	Lecturer gives the assignment programming	10'				

Learning Activity   : 24 (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		Thinking logically, critically, creatively, and innovatively
Main Activities	• Students practice and do exercises to compose a program to solve problem in using enumerated data types and subranges	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
Find the example of Pascal program that use enumerated data type and subranges from some reference. Try and observe 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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