LESSON PLAN

RPP/MAA 319/08
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 a looping using while do and repeat until statement

6. Indicator :
   ➢ Students are able to compose a program that contain a looping using while do statement
   ➢ Students are able to compose a program that contain a looping using repeat until statement
   ➢ Students are able to explain the difference between while do and repeat until statement

7. Essential Concepts : LOOPS: while do, repeat until
8. Learning Activity : 17

<table>
<thead>
<tr>
<th>Component</th>
<th>Detail Activity</th>
<th>Time</th>
<th>Method</th>
<th>Media</th>
<th>References</th>
<th>Character</th>
</tr>
</thead>
</table>
| Opening     | • Lecturer greets the students and asks some students to tell some important points of the topic in the last meeting  
               • Lecturer describes its relation to the next topic.  
               • Students get opportunity to read the handout for a few minutes and the 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 while do and repeat until statement  
               • Students present their idea to other students  
               • Other students give their opinion  | 5’   | Explanation and Discussion  | Computer, LCD    | A:32-33, B:4 | Thinking logically, critically, creatively, and innovatively             |
| Main Activities | • Students present their idea to other students  
               • Other students give their opinion  | 75’  | Explanation Demonstration, Discussion, practice, group work |                  |            | Caring about social matters and environment                                |
| Closure     | Lecturer gives feedback to the result of students’ performance  | 10’  |                         |                  |            |                                                                           |
Follow up: Students are asked to study further about algorithm and find many resources about them in the Internet.

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<tbody>
<tr>
<td>Opening</td>
<td>Lecturer greets students and deliver a lab sheet</td>
<td>5’</td>
<td>Explanation and Discussion</td>
<td>Computer, worksheet</td>
<td>worksheet / quiz</td>
<td>Thinking logically, critically, creatively, and innovatively</td>
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<td>Main Activities</td>
<td>Students practice and do exercises to compose a program to solve a given problems using loop statement</td>
<td>80’</td>
<td>Practice, by self/in a group</td>
<td>worksheet / quiz</td>
<td></td>
<td>Caring about social matters and environment</td>
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<td>Closure</td>
<td>Lecturer gives feedback to the result of students’ work</td>
<td>10’</td>
<td>Explanation</td>
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<td>Follow up</td>
<td>Lecturer describes the introduction of the next material</td>
<td>5’</td>
<td>Explanation</td>
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9. Assessment
Write down a program to find the average of n data using while-do and repeat until statement.

10. References
A. Compulsory:

B. Additional