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 of
making decision using case-of statement
6. Indicator  :
   ➢ Students are able to use nested if statement to compose a program that contain decisions making
   ➢ Students are able to use logical operators in statements of decisions making
   ➢ Students are able to use boolean expressions in statements of decisions making
   ➢ Students are able to use case-of statement to compose a program that contain decisions making
7. Essential Concepts : MAKING DECISIONS: nested if, case of
8. Learning Activity : 11

<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>
<tbody>
<tr>
<td>Opening</td>
<td></td>
<td>5'</td>
<td>Explanation and Discussion</td>
<td>Computer, LCD</td>
<td>A:23-28, B.1, B.4</td>
<td>Thinking logically, critically, creatively, and innovatively Caring about social matters and environment</td>
</tr>
<tr>
<td>Main Activities</td>
<td>Lecturer greets the students and asks some students to tell some important points of the topic in the last meeting</td>
<td>75'</td>
<td>Explanation Demonstration, Discussion, practice, group work</td>
<td></td>
<td></td>
<td>Caring about social matters and environment</td>
</tr>
<tr>
<td>Main Activities</td>
<td>Lecturer describes its relation to the next one.</td>
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<tr>
<td>Main Activities</td>
<td>Lecturer explains the basic rule of using relational operator, boolean expressions and case of statement</td>
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<tr>
<td>Main Activities</td>
<td>Students are invited to give active participation in the discussion to compose a program for a given problem in decision making using relational operator, boolean expressions and case of statement</td>
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<tr>
<td>Main Activities</td>
<td>In pair, students discuss and try their program</td>
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<tr>
<td>Main Activities</td>
<td>Students present their idea</td>
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<tr>
<td>Main Activities</td>
<td>Other students give their opinion</td>
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</table>
Closure

Follow up

Student and lecturer conclude today's topic

- Lecturer gives assignment programming
- Students are asked to study further about algorithm and find many resources about them in the Internet

10’
10’

Follow up

• Lecturer gives assignment programming
• Students are asked to study further about algorithm and find many resources about them in the Internet

Learning Activity : 12 (practice, 1 sks practice = 100’)

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</thead>
<tbody>
<tr>
<td>Opening</td>
<td>• Lecturer reviews of some important point in the topic&lt;br&gt;• Lecturer asks students to prepare their previous assignment&lt;br&gt;Students practice to compose a program to solve some problems as in assignment from lecturer.</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>
</tr>
<tr>
<td>Main Activities</td>
<td></td>
<td>80’</td>
<td>Practice, by self/in a group</td>
<td></td>
<td></td>
<td>Caring about social matters and environment</td>
</tr>
<tr>
<td>Closure</td>
<td>Lecturer gives feedback to the result of students’ work&lt;br&gt;Lecturer describes the introduction of the next material&lt;br&gt;Students are supposed to read the next material in handout and explore the Internet.</td>
<td>10’</td>
<td>Explanation</td>
<td></td>
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<tr>
<td>Follow up</td>
<td></td>
<td>5’</td>
<td>Explanation</td>
<td></td>
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</tbody>
</table>

9. Assessment
   Rewrite your program to print the mark using case of statement.

10. References
    A. Compulsory :

    B. Additional

Yogyakarta, 23 August 2010
Lecturer,

Sri Andayani, M.Kom
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