1. **Name of subject**: Critical Thinking
2. **Subject code**: PCR002
3. **Status of subject**: Core
4. **Stage**: Foundation
5. **Version**: Date of previous version – March 2011
   Date of current version – November 2011
6. **Name (s) of academic staff**: Masyitah Mahadi, Siti Marziah Zakaria, Siti Rasyidah Sanudin, Hawa Rahmat
7. **Rationale for the inclusion of the subject in the programme**: To exhibit the students analytical and problem solving skills and to function within multi-disciplinary teams in and outside classroom.
8. **Semester and Year offered**: Semester 1, Foundation
9. | Total Student Learning Time (SLT) | Face to Face | Total Guided and Independent Learning |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>L = Lecture</td>
<td>33</td>
<td>T 0 P 7 O 3</td>
</tr>
<tr>
<td>T = Tutorial</td>
<td></td>
<td></td>
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<tr>
<td>P = Practical</td>
<td></td>
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<tr>
<td>O = Others</td>
<td></td>
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</tr>
<tr>
<td>Independent = 77</td>
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<tr>
<td>Guided = 43</td>
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<tr>
<td>Total = 120</td>
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10. **Credit Value**: 3 (120/40 = 3)
11. **Prerequisite (if any)**: Nil
12. **Learning outcomes**:
   i. Identify the importance of Critical Thinking (Affective, Level 1)
   ii. Interpret arguments and situations logically, and form conclusions (Cognitive, Level 1)
   iii. Interpret arguments and questions clearly and precisely (Cognitive, Level 4)
   iv. Solve problems and make decisions accurately (Cognitive, Level 4)
13. **Synopsis**:
    Major areas of study include: brief introduction to Critical Thinking, science and beyond science, argumentation, problem solving, decision making, and communication skills.
14. **Mode of Delivery**: Lecture
15. **Assessment Methods and Types**:
    i. Assignment & presentations : 30%
    ii. Class quizzes : 20%
    iii. Final Exam : 50%
    Total : 100%
16. **Mapping of the subject to the Programme Learning Outcomes**: % of contribution
    - To acquire social skill and create awareness of social responsibilities. 16.7
    - To demonstrate moral and professional ethics and responsibilities. 25
    - To communicate and work effectively and independently, and as member/leader of a team in various context. 16.7
    - To acquire analytical and problem-solving skills. 33.3
    - To acquire lifelong learning skills and information management skills 8.3
17. **Content outline of the subject and the SLT per topic**:

<table>
<thead>
<tr>
<th>TOPIC</th>
<th>Content Outline</th>
<th>Lecture</th>
<th>Practical</th>
<th>Self-study</th>
</tr>
</thead>
</table>

1. **Introduction**
   Definition, standards, benefits, and barriers of Critical Thinking

2. **Science and Beyond Science**
   The basic pattern of scientific reasoning, the limitations of science

3. **Argumentation**
   Recognizing arguments; Evaluating arguments, Basic Logical Concepts; Logical Fallacies

4. **Language**
   Finding the right words, Emotive language, Euphemisms

5. **Cognition and Problem Solving**
   Cognition; Theories of Intelligence; Steps in problem solving; Ways to generate solutions, Barriers to problem solving

6. **Decision making**
   Definition of decision making; Individual decision making, Group decision making; Ways to improve decision making

   **Presentation**
   - - 3
   **Class project/assignment**
   - - 11
   **Mid-term**
   1 - 4
   **Final**
   2 - 20
   **TOTAL**
   36 7 77

7. **Teaching and Learning Activities/Total Student Learning Time (SLT):**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Face to Face</th>
<th>Self Learning</th>
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</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>Class activities</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Presentation</td>
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<td></td>
</tr>
<tr>
<td>Class project/assignment</td>
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<td></td>
</tr>
<tr>
<td>Mid-term</td>
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<td>4</td>
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<tr>
<td>Final</td>
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<td>20</td>
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<td><strong>Sub-total</strong></td>
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<td>77</td>
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<tr>
<td><strong>Total SLT(hours)</strong></td>
<td>120</td>
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8. **Main reference supporting the course:**

9. **Additional references supporting the course:**