

## **SEMESTER LESSON PLAN**



### **LESSON PLAN DEVELOPER(S):**

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**AQUACULTURE MASTER'S PROGRAM  
FACULTY OF FISHERIES AND MARINE SCIENCE  
UNIVERSITAS BRAWIJAYA  
2021**

## SEMESTER LESSON PLAN

### 1. Course Identity

Study Program	: Aquaculture Master's Program
Course	: Modelling of Water Management System
Course Code	: PIB 8208
Course Group	: Aquatic Environment
Credit	: 2
Degree	: Master's degree
Semester	: 2
Pre-requisite	: (If any, write the course code)
Status	: Elective
Lecturers' names and codes:	Dr. Ir. Tri Djoko Lelono, MS. Prof. Dr. Ir. Soemarno, MS. Dr. Ir. Darmawan Ockto S, MS.

### 2. Course Description

This course discusses various models in the management of aquatic ecosystems such as basic systems, reputation management, bacteria management, different water management systems and how to select journal modeling references.

### 3. Program Learning Outcomes (PLO)

1. Being able to develop the existing concept and create new knowledge in the field of sustainable aquaculture system and *Best Management Practices of Aquaculture* (CPL 8).

**4. Course Learning Outcomes**

After completing this course, students will be able to:

1. understand the basics of modeling systems for water management systems.
2. understand bacteria management and various models of water management systems.
3. select relevant modeling journals and present them.

**5. Lesson Plan**

Week	PLO Indicator	Topics	Teaching Strategies	Time (hour)	Learning Activities	Assessment	Learning Sources
1	1.1 Accuracy in explaining the basic concepts of water management modeling system	- Basic concepts of water management modeling system	<ul style="list-style-type: none"> <li>• Lecture (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	Criteria: Scoring Guidelines  Non-test: summarizing lecture materials (A)	<ol style="list-style-type: none"> <li>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. <i>Journal of Computing in Civil Engineering</i>, 18(4), 331–340.</li> <li>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, <i>J. Water Resour. Plann. Manage.</i> 118(1), 32–53.</li> <li>3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, <i>J. Water Resour. Plann. Manage.</i> 125 (3), 154–161.</li> </ol>
2	2.1 Accuracy in explaining	- Bacteria management	<ul style="list-style-type: none"> <li>• Lecture (S)</li> <li>• Assignment</li> </ul>	2	Note taking (A)	Criteria: Scoring	<ol style="list-style-type: none"> <li>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system</li> </ol>

Week	PLO Indicator	Topics	Teaching Strategies	Time (hour)	Learning Activities	Assessment	Learning Sources
	bacteria management		(A) & Presentation (S)		Working on assignments (A)	<p>Guidelines</p> <p>Non-test:</p> <ul style="list-style-type: none"> <li>- summarizing lecture materials (A)</li> <li>- group or independent presentation (S)</li> </ul>	<p>dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</p> <p>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</p> <p>3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.</p>
3	3.1 Accuracy in explaining the water management research method	- Water management research method	<ul style="list-style-type: none"> <li>• Lecture (S)</li> <li>• Assignment (A) &amp; Presentation (S)</li> </ul>	2	<p>Note taking (A)</p> <p>Working on assignments (A)</p>	<p>Criteria: Scoring Guidelines</p> <p>Non-test:</p> <ul style="list-style-type: none"> <li>- summarizing lecture materials (A)</li> <li>- group or independent presentation (S)</li> </ul>	<p>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</p> <p>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</p> <p>3) Belaine, G., Peralta, R.C.</p>

Week	PLO Indicator	Topics	Teaching Strategies	Time (hour)	Learning Activities	Assessment	Learning Sources
							and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.
4	4.1 Accuracy in explaining the closed role model	- Closed role model	<ul style="list-style-type: none"> <li>• quiz 1 (S)</li> <li>• Lecture (S)</li> <li>• Assignment (A) &amp; Presentation (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	<p>Criteria: Scoring Guidelines</p> <p>Non-test: - summarizing lecture materials (A) - group or independent presentation (S)</p>	<ol style="list-style-type: none"> <li>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</li> <li>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</li> <li>3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.</li> </ol>
5	5.1 Accuracy in explaining regular model	- Regular model	<ul style="list-style-type: none"> <li>• Lecture (S)</li> <li>• Assignment (A) &amp; Presentation (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	<p>Criteria: Scoring Guidelines</p> <p>Non-test: - summarizing lecture</p>	<ol style="list-style-type: none"> <li>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</li> </ol>

Week	PLO Indicator	Topics	Teaching Strategies	Time (hour)	Learning Activities	Assessment	Learning Sources
						<p>materials (A)</p> <p>- group or independent presentation (S)</p>	<p>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</p> <p>3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.</p>
6	6.1 Accuracy in explaining the coastal management model	- Coastal management model	<ul style="list-style-type: none"> <li>• Lecture (S)</li> <li>• Lecture (S)</li> <li>• Assignment (A) &amp; Presentation (S)</li> </ul>	2	<p>Note taking (A)</p> <p>Working on assignments (A)</p>	<p>Criteria: Scoring Guidelines</p> <p>Non-test: - summarizing lecture materials (A)</p> <p>- group or independent presentation (S)</p>	<p>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</p> <p>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</p> <p>3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.</p>

Week	PLO Indicator	Topics	Teaching Strategies	Time (hour)	Learning Activities	Assessment	Learning Sources
7	7.1 Accuracy in understanding risk analysis model	- Risk analysis model	<ul style="list-style-type: none"> <li>Lecture (S)</li> <li>Assignment (A) &amp; Presentation (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	Criteria: Scoring Guidelines  Non-test: - summarizing lecture materials (A) - group or independent presentation (S)	<ol style="list-style-type: none"> <li>Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. <i>Journal of Computing in Civil Engineering</i>, 18(4), 331–340.</li> <li>Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, <i>J. Water Resour. Plann. Manage.</i> 118(1), 32–53.</li> <li>Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, <i>J. Water Resour. Plann. Manage.</i> 125 (3), 154–161.</li> </ol>
8	<b>MIDTERM EXAM</b>						
9	9.1 Accuracy in explaining path analysis model	- Path analysis model	<ul style="list-style-type: none"> <li>Lecture (S)</li> <li>Assignment (A) &amp; Presentation (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	Criteria: Scoring Guidelines  Non-test: - summarizing lecture materials (A) - group or independent presentation	<ol style="list-style-type: none"> <li>Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. <i>Journal of Computing in Civil Engineering</i>, 18(4), 331–340.</li> <li>Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, <i>J. Water Resour.</i></li> </ol>

Week	PLO Indicator	Topics	Teaching Strategies	Time (hour)	Learning Activities	Assessment	Learning Sources
						(S)	Plann. Manage. 118(1), 32–53. 3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.
10	10.1 Accuracy in explaining the reputation of water management	- Reputation of water management	<ul style="list-style-type: none"> <li>Lecture (S)</li> <li>Assignment (A) &amp; Presentation (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	<p>Criteria: Scoring Guidelines</p> <p>Non-test: - summarizing lecture materials (A) - group or independent presentation (S)</p>	<p>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</p> <p>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</p> <p>3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.</p>
11	13.1 Accuracy in understanding water management system model	-Modelling of water management system	<ul style="list-style-type: none"> <li>Lecture (S)</li> <li>Assignment (A) &amp; Presentation (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	<p>Criteria: Scoring Guidelines</p> <p>Non-test:</p>	<p>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil</p>



Week	PLO Indicator	Topics	Teaching Strategies	Time (hour)	Learning Activities	Assessment	Learning Sources
						<ul style="list-style-type: none"> <li>- summarizing lecture materials (A)</li> <li>- group or independent presentation (S)</li> </ul>	<p>Engineering, 18(4), 331–340.</p> <p>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</p> <p>3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.</p>
12	15.1 Accuracy in understanding and explaining the materials presented in previous weeks	<ul style="list-style-type: none"> <li>-Water management reputation</li> <li>-Modeling of water management system</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture (S)</li> <li>• Assignment (A) &amp; Presentation (S)</li> </ul>	2	<ul style="list-style-type: none"> <li>Note taking (A)</li> <li>Working on assignments (A)</li> </ul>	<p>Criteria: Scoring Guidelines</p> <p>Non-test:</p> <ul style="list-style-type: none"> <li>- summarizing lecture materials (A)</li> <li>- group or independent presentation (S)</li> </ul>	<p>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</p> <p>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</p> <p>1) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J.</p>

Week	PLO Indicator	Topics	Teaching Strategies	Time (hour)	Learning Activities	Assessment	Learning Sources
							Water Resour. Plann. Manage. 125 (3), 154–161.
13	13.1 Accuracy in explaining various modeling journal references	- Various modeling journal references	<ul style="list-style-type: none"> <li>Lecture (S)</li> <li>Assignment (A) &amp; Presentation (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	<p>Criteria: Scoring Guidelines</p> <p>Non-test: - summarizing lecture materials (A) - group or independent presentation (S)</p>	<ol style="list-style-type: none"> <li>Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</li> <li>Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</li> <li>Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.</li> </ol>
14	14.1 Accuracy in understanding and selecting proper modeling journal references	- Selecting modeling journal references	<ul style="list-style-type: none"> <li>Lecture (S)</li> <li>Assignment (A) &amp; Presentation (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	<p>Criteria: Scoring Guidelines</p> <p>Non-test: - summarizing lecture materials (A) - group or independent</p>	<ol style="list-style-type: none"> <li>Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</li> <li>Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive</li> </ol>

Week	PLO Indicator	Topics	Teaching Strategies	Time (hour)	Learning Activities	Assessment	Learning Sources
						presentation (S)	facilities, J. Water Resour. Plann. Manage. 118(1), 32–53. 3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.
15	15.1 Accuracy in understanding and explaining the materials presented in previous weeks	<ul style="list-style-type: none"> <li>- Integrated concepts and applications of marine aquaculture</li> <li>- Sustainable periphyton</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture (S)</li> <li>• Assignment (A) &amp; Presentation (S)</li> </ul>	2	Note taking (A) Working on assignments (A)	<p>Criteria: Scoring Guidelines</p> <p>Non-test: - summarizing lecture materials (A) - group or independent presentation (S)</p>	<ol style="list-style-type: none"> <li>1) Ahmad, S., &amp; Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. Journal of Computing in Civil Engineering, 18(4), 331–340.</li> <li>2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, J. Water Resour. Plann. Manage. 118(1), 32–53.</li> <li>3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, J. Water Resour. Plann. Manage. 125 (3), 154–161.</li> </ol>
16	<b>FINAL EXAM</b>						

Notes: S = Synchronous, A = Asynchronous, all soft skills achievement will be scored based on the analysis referring to the Learning Management System

## 6. References

- 1) Ahmad, S., & Simonovic, S. P. (2004). Spatial system dynamics: New approach for simulation of water resources systems. *Journal of Computing in Civil Engineering*, 18(4), 331–340.
- 2) Andrews, E. S., F. I. Chung, and J. B. Orlin (1993), Multilayer, priority based simulation of conjunctive facilities, *J. Water Resour. Plann. Manage.* 118(1), 32–53.
- 3) Belaine, G., Peralta, R.C. and, Hughes, T.C. (1999). Simulation/optimization modeling for water resources management, *J. Water Resour. Plann. Manage.* 125 (3), 154–161.
- 4) Bredecke, C. M. (1989), Network models of water rights and system operations, *J. Water Resour. Plann. Manage.* 115(5), 684–696.
- 5) Cai, X., McKinney, D., and Lasdon, L. (2002). A framework for sustainability analysis in water resources management and application to the Syr Darya Basin. *Water Resources Research* 38 (6), pp. 1085–1099.
- 6) Application to the Maipo River Basin. Research report 149, international food policy research institute, Washington, D.C.
- 7) Chung, F. I., M. C. Archer, and J. J. DeVries (1989), Network flow algorithm applied to California aqueduct simulation, *J. Water Resour. Plann. Manage.* 115(2), 131–147.
- 8) Rani, D. and Moreira, M.M. (2010). Simulation–Optimization Modeling: A Survey and Potential Application in Reservoir Systems Operation. *Water Resour. Management*, 24, pp1107–1138.

## 7. Appendices

### Appendix 1. *Learning Materials*

- PPT 1 : Introduction
  - PPT 2 : Basic concept of water management modeling system
  - PPT 3 : The function of water management model
  - PPT 4 : Bacteria management
  - PPT 5 : Water management research model
  - PPT 6 : Closed-role model
  - PPT 7 : Regular model
  - PPT 8 : Coastal management model
  - PPT 9 : Risk analysis model
  - PPT 10 : Path analysis model
  - PPT 11 : Reputation of water management
  - PPT 12 : Various kinds of journal modeling references
  - PPT 13 : Selecting proper modeling journals
  - PPT 14 : Presentation on the modeling of water management system
- Online learning resources: (URL/link)  
and other learning resources: (URL/link)

### Appendix 2. *Media*

Zoom Meeting: (URL/link)

Google Meet: (URL/link)

### Appendix 3. *Assessment Instrument*

## Scoring Rubric

### Oral Presentation

<b>Close to the Expectation</b>  <b>(score 1-2)</b>	<b>Meeting the Expectation</b>  <b>(score 3-4)</b>	<b>Exceeding the Expectation</b>  <b>(score 5)</b>
<ol style="list-style-type: none"> <li>1) Presentation is not organized and not well developed</li> <li>2) Material is not well-explained well</li> <li>3) Theories and concepts are not thoroughly discussed</li> <li>4) Presentation is not clear and not fluent</li> <li>5) Lack of confidence in delivery, mostly note reading</li> <li>6) Voice is unclear</li> <li>7) Presentation does not attract audiences' attention</li> <li>8) Inadequate responses to questions, inadequate comprehension of the material</li> <li>9) Unsynchronized presentations</li> <li>10) Exceeding the time limit, failing to complete the presentation</li> </ol>	<ol style="list-style-type: none"> <li>1) Presentation is rather well -organized and developed</li> <li>2) Fair comprehension of the material being delivered</li> <li>3) Theories and concepts are fairly discussed thoroughly</li> <li>4) Presentation is fairly clear and fluent</li> <li>5) Showing fairly strong confidence and speakers read notes wisely</li> <li>6) Voice is quite clear</li> <li>7) Able to engage audience's attention</li> <li>8) Fairly good in responding to questions, showing excellent comprehension of the material being presented</li> <li>9) Good synchronization of presentation flow</li> <li>10) Exceeding the time limit yet presenters managed to complete the presentation</li> </ol>	<ol style="list-style-type: none"> <li>1) Presentation is very well organized and creatively developed</li> <li>2) Very strong knowledge regarding the material being presented</li> <li>3) Theories and concepts are very thoroughly-discussed</li> <li>4) Presentation is very clear and smooth</li> <li>5) Excellent confidence in delivery, reading notes very wisely</li> <li>6) Voice is very clear</li> <li>7) Adequately attracts audiences' attention well</li> <li>8) Responding to questions very well, very strong comprehension of the material being delivered</li> <li>9) Very clear synchronization in presentation flow</li> <li>10) Not exceeding the time limit, presentation is completed</li> </ol>

### Written Assignments

#### Essay

<b>Under the average</b> <b>(score 1 – 4)</b>	<b>Within the Average</b> <b>(score 5 – 8)</b>	<b>Above the Average</b> <b>(score 9 – 12)</b>	<b>Perfect</b> <b>(score 13 – 15)</b>
<ol style="list-style-type: none"> <li>1) Not using the right analytical method</li> <li>2) Incorrect data analysis</li> <li>3) Making wrong conclusions</li> </ol>	<ol style="list-style-type: none"> <li>1) Using acceptable analytical methods</li> <li>2) Data are well analyzed</li> <li>3) Making relevant conclusions</li> <li>4) There is a fairly critical</li> </ol>	<ol style="list-style-type: none"> <li>1) Using a relatively precise analysis method</li> <li>2) Proper data analysis</li> <li>3) Making the right conclusion</li> </ol>	<ol style="list-style-type: none"> <li>1) Using the correct analytical method</li> <li>2) Effective data analysis</li> <li>3) Making strongly effective conclusions</li> </ol>

<p>4) No critical analysis of the data available</p> <p>5) No references</p> <p>6) Unmatched literature review (theory, research) and questions</p> <p>7) Using non-standardized language and poor cohesion</p> <p>8) No explanation about the implications of the topics being discussed</p> <p>9) Essay is not systematically-structured</p>	<p>analysis of the data</p> <p>5) There are only one or two references yet irrelevant</p> <p>6) Matching literature review (theory, research) and question</p> <p>7) Using standard language with good cohesion between sentences</p> <p>8) The implications of the topics being discussed are explained yet less thoroughly</p> <p>9) Essay is not systematically-structured</p>	<p>4) Critical analysis of the data is found</p> <p>5) There are many references yet irrelevant at this point</p> <p>6) Matching literature review (theory, research) and questions</p> <p>7) Using standard language and sentences are cohesive</p> <p>8) There is a unique and critical explanation of the implications of the topics being discussed</p> <p>9) Essay is systematically-arranged</p>	<p>4) There is a strong critical analysis of the data</p> <p>5) There are many references with strong relevancy</p> <p>6) Strongly matching literature review (theory, research) and questions</p> <p>7) Using standard language with strong cohesion between sentences</p> <p>8) There is a unique and very critical explanation of the implications of the topics being discussed</p> <p>9) Essay is systematically and neatly arranged</p>
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*Report*

<b>Under the average (score 1 – 4)</b>	<b>Within the Average (score 5 – 8)</b>	<b>Above the Average (score 9 – 12)</b>	<b>Perfect (score 13 – 15)</b>
<p>1) Not using the right analytical method</p> <p>2) Incorrect data analysis</p> <p>3) Making wrong conclusions</p> <p>4) No critical analysis of the data available</p> <p>5) No references</p> <p>6) Unmatched literature review (theory, research) and questions</p> <p>7) Using non-standardized language and poor cohesion</p> <p>8) No explanation about the implications of the topics being discussed</p> <p>9) Report is not</p>	<p>1) Using acceptable analytical methods</p> <p>2) Data are well analyzed</p> <p>3) Making relevant conclusions</p> <p>4) There is a fairly critical analysis of the data</p> <p>5) There are only one or two references yet irrelevant</p> <p>6) Matching literature review (theory, research) and question</p> <p>7) Using standard language with good cohesion between sentences</p> <p>8) The implications of the topics being discussed are explained yet less</p>	<p>1) Using a relatively precise analysis method</p> <p>2) Proper data analysis</p> <p>3) Making the right conclusion</p> <p>4) Critical analysis of the data is found</p> <p>5) There are many references yet irrelevant at this point</p> <p>6) Matching literature review (theory, research) and questions</p> <p>7) Using standard language and sentences are cohesive</p> <p>8) There is a unique and critical explanation of the</p>	<p>1) Using the correct analytical method</p> <p>2) Effective data analysis</p> <p>3) Making strongly effective conclusions</p> <p>4) There is a strong critical analysis of the data</p> <p>5) There are many references with strong relevancy</p> <p>6) Strongly matching literature review (theory, research) and questions</p> <p>7) Using standard language with strong cohesion between sentences</p> <p>8) There is a unique and very critical explanation of the</p>

systematically-structured	thoroughly 9) Report is relatively not systematically-structured	implications of the topics being discussed 9) Report is systematically-arranged	implications of the topics being discussed 9) Report is systematically and neatly arranged
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