



<u>FACULTY</u>	: Education
<u>DEPARTMENT</u>	: Science and Technology Education
<u>CAMPUS</u>	: APK
<u>MODULE</u>	: METHODOLOGY AND PRACTICUM:FET PHYSICAL SCIENCES 4 (MOFPPY4)
<u>SEMESTER</u>	: Second
<u>SUBMISSION</u>	: SSA January 2020

<u>ASSESSOR(S)</u>	: Dr S Ramaila		
<u>MODERATOR</u>	: Prof S Singh (UL)		
<u>DURATION</u>	: SUBMISSION	<u>MARKS</u>	: 100

NUMBER OF PAGES: 3 PAGES

INSTRUCTIONS:

1. Answer ALL THE QUESTIONS.
 2. Number your answers clearly.
 3. Type your work neatly and diagrams or illustrations should be clear.
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QUESTION 1: Constructivist learning in science teaching

The inquiry-based approach can be used as a tool to promote constructivist learning in science teaching.

- 1.1 Describe how you employed an inquiry-based approach in teaching science topics during work-integrated learning (WIL). (20)
 - 1.2 Explain how an inquiry-based approach can be used to demystify abstract concepts by using specific examples in Physical Sciences. (30)
- [50]**

QUESTION 2: Nature of Science

The nature of science is an essential tenet in science education.

- 2.1 Describe how you integrated nature of science to curriculum as a Physical Sciences teacher during work-integrated learning (WIL). (20)
 - 2.1 Discuss the significance of the nature of science in science teaching and learning. (30)
- [50]**

Total: 100

Appendix 1 and 2 are rubrics for questions 1 and 2 respectively.

Appendix 1

Levels and descriptors				
	1-5 Poor	6-10 Satisfactory	11-15 Good	16-20 Excellent
1.1	Superficial description	Adequate description	Meaningful description that answers the question	Coherent, meaningful and explicit description which adequately answers the question
	0-5 Poor	6-10 Satisfactory	11-15 Good	16-30 Excellent
1.2	Superficial discussion	Adequate description	Meaningful discussion that answers the question	Coherent and meaningful discussion which adequately answers the question

Appendix 2

Levels and descriptors				
	1-5 Poor	6-10 Satisfactory	11-15 Good	16-20 Excellent
1.1	Superficial description	Adequate description	Meaningful description that answers the question	Coherent, meaningful and explicit description which adequately answers the question
	0-5 Poor	6-10 Satisfactory	11-15 Good	16-30 Excellent
1.2	Superficial discussion	Adequate description	Meaningful discussion that answers the question	Coherent and meaningful discussion which adequately answers the question