



ACCRA INSTITUTE OF TECHNOLOGY

The University of the Future

**OPEN UNIVERSITY, MALAYSIA (OUM) PROGRAMME**

**END OF TRIMESTER EXAMS**

**MAY TRIMESTER**

**2021/2022 ACADEMIC YEAR**

**DATE: SEPT 2022**

**COURSE CODE: MGT306/IT306/CS307**

**COURSE NAME: RESEARCH METHODOLOGY**

**LECTURER NAME:**

**ALEXANDER JERRY TAYLOR/ EUGENE M AKOTO**

## **ANSWER ALL THE QUESTIONS IN THIS PAPER**

**(100 Marks)**

As an Undergraduate student of AIT, you would be required to write a Capstone as a partial fulfilment for the award of the Undergraduate' degree you seek to obtain from the University. While this is not the only requirement, this is one of the most rigorous activities a student has to undertake to be awarded the degree. During the course of the research methodology class, you submitted a topic for approval/revision. Using the topic you hope to write about, write a proposal covering the following:

### **A. Introductory Section (30 Marks)**

- i. State a good research topic comprising of both dependent and independent variable.

**(2 Marks)**

- ii. Briefly write out your problem statement. Your problem statement should be clear, supported by literature and/or statistics to show the gap in literature that your study seek to fill. It shouldn't be more than a page (*1.5 spacing, Times New Romans Font with a font size of 12*). **(10 Marks)**

- iii. State the main aim/objective of the study and at least four specific objectives you hope to achieve at the end of the study. **(6 Marks)**

- iv. Write out the research questions your study will answer. **(6 Marks)**

- v. Provide a justification of the study or significance of the study **(6 Marks)**

## **B. Literature Review not more than one page (20 Marks)**

Your literature review should be properly referenced using the APA referencing style.

## **C. Methodology Section (40 Marks)**

Briefly describe:

- i. The design of your study and justify your choice of research approach (quantitative/qualitative/mix). **(10 Marks)**
- ii. Study population (provide an estimated number of the population) **(4 Marks)**
- iii. The sample size (*compute a representative sample size using a 5% margin of error*) **(6 Marks)**
- iv. The sampling technique (how you will actually select the respondent) **(6 Marks)**
- v. Data collection method (describe how you will administer the questionnaire to the respondent. Thus, will it be self-administered or interviewer administered ....justify your choice) **(4 Marks)**
- vi. Method of data analysis **(6 Marks)**
- vii. Ethical issues you will consider in your study. **(4 Marks)**

## **IT/CS Students**

- i. Research Methodology / Model (What/Which,Why,How)
- ii. System/Product Analysis and Description (What/Which,Why,How)
- iii. System / Product Specification / Requirements and Design Methods & Description (What/Which,Why,How)

- iv. Which techniques, tools/instruments, approaches etc. will be adopted and used to develop/produce, present/demonstrate the expected results of the study
- v. Highlight and discuss the relevance of these techniques/tools/instruments/approaches to the study
- vi. Describe how these techniques/tools/ instruments or approaches will be applied or used
- vii. A description of the proposed solution strategy/approach or method and expected outcome.
- viii. Ethical issues you will consider in your study.

**D. References used in the work (in APA referencing format) (10 Marks)**

**GOOD LUCK**