# Uganda Martyrs University

## UNIVERSITY EXAMINATIONS

### FACULTY OF SCIENCE

## DEPARTMENT OF COMPUTER SCIENCE & INFORMATION SYSTEMS

### END OF SEMESTER FINAL ASSESMENT

## SEMESTER 2, 2022/2023

| | | |
|---|---|---|
| **COURSE** | : | BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY, BACHELOR OF COMPUTER SCIENCE, BACHELOR OF SCIENCE GENERAL AND BACHELOR OF SCIENCE WITH EDUCATION |
| **CLASS/YEAR** | : | TWO |
| **EXAM** | : | RESEARCH METHODS in IT |
| **CODE** | : | CSC 2103 |
| **SEMESTER** | : | TWO |
| **DATE** | : | 26th MAY 2023 |
| **TIME** | : | 9:30 – 12:30 PM |
| **DURATION** | : | 3 HOURS |

### Instructions

1. *You have e question to Attempt*

2. *Time Allowed 3 Hours Only*

3. *Write your name, course and registration number on all your answer sheets*
   *All answers should be written on the answer booklet*

4. *All university rules apply*

# Concept Paper Writing

You have completed a course unit in Research Methods in IT/CS. In this course unit you have not only covered the basic components of research, concept paper and proposal structures, but you have also covered basic skills and knowledge in research; more specifically, research in IT and CS. For your final assessment, you are tasked to develop a concept paper for your final dissertation. Select a research area of your choice from the following broad research areas;

1.    Protecting campus users from cybersecurity attacks

2.    Data protection and privacy for e-learning systems

3.    Designing secure websites for e-commerce

4.    Mobile applications for healthcare

5.    Context aware mobile applications

6.    AI to support customized search options for online shoppers

Develop a Research Title and Research Problem from any of the above Research Areas. Articulate these in a Concept Paper. The structure of the concept paper should include the following:

Research Title/Topic

1. Introduction

1.1. Background to the problem.

1.2. Problem Statement

1.3. Aim and Objectives

       1.3.1. Specific Objectives

1.4. Research Scope

1.5. Research Significance

2. Methodology