

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF SCIENCE, DEPARTMENT OF COMPUTER SCIENCE

COURSE CODE: CSC 121 COURSE TITLE: Procedural Programming

Course Lecturer: Mr. Omieno K.Kelvin

Tel: +254726849197 Or 0734 849197 Mail komiemo@kelvinomieno.com

Web www.kelvinomieno.com

Lecturer Time: Wed 1.00- 4PM LBB 015 Consultation Time: Thur 1.00 pm-4.00 pm

Purpose:

The student will be able to appreciate methodology of structured programming, modular programming and develop complete applications using data structures.

Objectives:

At the end of this course, the student should be able to:

- ❖ Write programs using control structures
- ❖ Write programs using procedures.

Content:

WEEK 1

Introduction

- High level languages
- Source code
- Object code
- Translators(interpreters and compilers)

WEEK 2

- Algorithms
- Program Elements: Preprocessor commands
- *ASSIGNMENT I*

WEEK 3

- Variables and data types
- operators and expressions

WEEK 4

- Statements
- Blocks and comments.
- *CAT I*

WEEK 5

Control structures

- Selection
 - if ,if else, Switch-Case

WEEK 6

- Iteration
 - For, do-while, while loops.

WEEK 7

Basic data Structures

CSC 121 procedural Programming.

- Introduction to Arrays
- *ASSIGNMENT II*

WEEK 8

- Single dimensional arrays.
- *CAT 2*

WEEK 9

- Multidimensional Arrays.

WEEK 10

Modular programming

- Functions

WEEK 11

- Continuation of functions

WEEK 12

- REVISION OF CATS

The language of choice is C++ programming language.

TEACHING AND LEARNING METHODOLOGIES

- Lectures
- Class/ Group Discussions
- Questions
- Group Assignments/ Projects

Assessment:

- Continuous Assessment Test _____ 20 %
- A mini project /Assignments _____ 10 %
- Written / main Exam. _____ 70 %

REFERENCES:

- 1) Harbinson Steele – C++ A reference manual.
- 2) Peter Aitken, Brad L. Jones- Teach yourself C++ in 21 days
- 3) Any other relevant books and relevant materials from the Internet.

Confirmed by Lecturer

SIGN..... Date:.....

Approved for Circulation

COD: Name:.....SIGN.....DATE.....