

**MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF SCIENCE, DEPARTMENT OF COMPUTER SCIENCE  
DIPLOMA IN INFORMATION TECHNOLOGY**

**Course code and title: DIT 052 – Rapid Application Development**

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**LECTURER**

Mr. OMIENO K. Kelvin

**CONTACT**

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**LECTURE TIME:** Mon. 10.00 a.m – 1.00 pm

**PURPOSE**

The course introduces the student to the fundamental principles of Rapid application development; Visual Basic 6.0 being the programming language. It covers aspects of logical data structures, interaction between the database and created program.

**COURSE OBJECTIVES:**

At the end of the course, the student will:

- Be able to identify the various GUI components that form a user Interface.
- Be able to develop an application using the Visual Programming Language.

**COURSE CONTENT**

- 1) User Interface
  - GUI elements
  - Basic Code constructions in Visual Basic
  - Default property values such as color, text visibility, data types , subprograms
- 2) Variables, data types and operators
- 3) Logical data structures
  - Single dimensional arrays
  - Multidimensional arrays
- 4) Screen and Dialogue design
- 5) Prototyping and use of Ms Access
- 6) VB Macros in a User Interface
- 7) Application of Analysis and Design concepts
- 8) Linking a database to a program.

## TEACHING AND LEARNING METHODOLOGIES

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

## MODE OF EVALUATION

1. Continuous Assessments	
- Tests	15 %
- Assignments	15 %
Mini project	10 %
2. End of Semester Exam	60 %
<b>TOTAL</b>	<b>100%</b>

## REFERENCES

Paul Thurrott: *Projects for Microsoft Visual Basic 6* , 1999, Addison Wesley  
David Shneider: *Introduction to Visual Basic 6.0*,2000, Prentice Hall  
WilliamH. Murray and Chris H. Pappas: *Using Visual Basic* , 1992, Addison Wesley  
Deitel & Deitel Nieto: *Visual Basic 6.0: How to Program*,1999, Pearson  
Edward J. Coburn: *Visual Basic Made Easy*, 1995