

MTH 103 COURSEWRAE

COURSE TITLE: MTH103 (3 UNITS)

SEMESTER: FIRST SEMESTER

ACADEMIC SESSION: 2017/2018

COURSE LECTURER: AGWEMURIA O. RICHARD

COURSE OBJECTIVES: To expose and educate students on the basic ideas of function and calculus

COURSE OUTLINE: 1. Functions of a real variable

2. Graphs, Limits, and Continuity of functions

3. The derivative as a limit of rate of change

4. Techniques of Differentiation

5. Integration of Functions

6. Methods of Integration

7. Definite Integrals

8. Applications of Integration to Areas & Volumes.

LECTURE ARRANGEMENT (weekly): Mondays 11am-12noon

Wednesdays 10am-11am

Fridays 4pm-5pm

MODE OF ASSESSMENT: The students are assessed using a continuous assessment of 30marks which is subdivided into 5marks (Attendance), 15marks (Assignment), and 10marks for a written test.

At the end of the semester, an Examination which covers the entire course work, is organized, this Examination is made up of Section A (Objective), where the students are to answer all questions and Section B (Theory), where the students are to answer 4questions, from 6questions; both having a total 70marks.

CLASS ETHICS: Every student is expected to be in class at the exact time of the lectures, as late comers will be made to take the lectures from outside the class: every class ends with a class exercise, and a home work which must be submitted before the next class; the next class begins with a revision of the last class work, and then, the corrections of the last exercises.

REFERENCE MATERIALS: 1. The lecture notes

editions)

2. K.A Stroud Engineering Mathematics (4th, 5th, & 6th