

MTH 201 COURSEWRAE

COURSE TITLE: MTH 201 (3 UNITS)

SEMESTER: FIRST SEMESTER

ACADEMIC SESSION: 2017/2018

COURSE LECTURER: AGWEMURIA O. RICHARD

COURSE OBJECTIVES: To expose and educate students to the introductory concept of Mathematical Methods.

COURSE OUTLINE: 1. Review of Differentiation

2. Review of Integration

3. The Mean value Theorem and Leibnitz Rule

4. Tailor Series Expansion

5. Partial Derivatives

6. Extrema Problems

7. Use of Langrage Multipliers

8. Jacobians.

9. Multiple Integrals.

LECTURE ARRANGEMENT (weekly): Mondays 12noon-1pm

Tuesdays 8am-9am

Thursday 9am-10am

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, a Theoretical Examination which covers the entire course work, is organized; The students are to answer 4questions, from 6questions; 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

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

2nd edition.

3. Calculus and analytic Geometry

4. Mathematical methods for Engineers and Physicists