YEAR FOUR

SEMESTER ONE

QUS 4101 Construction Technology IV

Hours Per Week			Hours per Semester	Weighted Total Mark	Weighted Exam Mark	Weighted Continuous Assessment	Credit Units
LH	PH	TH	CH	WTM	WEM	WCM	CU
3	1	4	60	100	60	40	4

Course description

This course is meant to introduce students to particular aspects of civil engineering works.

Objective(s)

To enable students to understand, translate and interpret technical drawings of civil engineering works.

Course contents

1. Retaining Structure [15 CH]

1.1 Basement soil stabilization,

1.2 rock anchoring

1.3 Other retaining structures.

1.4 underpinning

2. Piling and special foundations. [15 CH]

3. Civil engineering construction. [15 CH]

3.1 tunneling

3.2 simple brides

3.3 culvert

3.4 railway trunks

3.5 Civil engineering plant and equipment.

4. Studio/practical exercises [15 CH]

Learning outcomes.

The student shall be able to understand civil engineering drawings with thorough comprehension of the construction technology, detailing and relevant specifications.

Method of delivery.

The course will be conducted through a mixture of lectures, group discussions and reading assignments. Basic lecture materials and data will be provided by the Lecturer and this will be supplemented by individual reading effort by students.

Method of assessment.

Assessment will be done through continuous coursework and final written examination. Continuous assessment will include assignments and classroom tests. A final examination will be offered at the end of each semester and will carry 60% of the total mark. Coursework will carry a total of 40% and will be divided into: assignments 20%, and written tests 20%.

Reference books and materials.

1. Barry, R. 1980. ***The Construction of Buildings*** Vol. 5 Granada Publishing

2. ***Manual of Tropical Housing and Building:*** Part 1 - Climatic Design. Longman, London and New York.

3. Seeley I.: 1980. ***Building Technology.*** Macmillan, London

4. Fullerton, R.L.: 1988. ***Building Construction in Warm Climate*** Vol. 2. Oxford University Press, London

5. Fullerton R.L. 1978. ***Building Construction in Warm Climate*** Vol. 3, Oxford University Press, London