QUS 1201 Construction Technology 1

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
4	0	4	60	100	60	40	4

Rationale/Course Description

Construction involves different types and levels of technology that enable building structures of different magnitudes to be constructed. This course covers technologies that relate to the methods of work, material production and application, and site health and safety provisions.

Objectives/Aims

- To introduce students to various technologies used in building construction,
- To create an understanding of manufacture and application of different construction materials.
- To provide information with regard to health and safety in a construction environment
- To enlighten students on the building regulations in the country

Course Outline

1) Introduction to building process skills and materials [15 CH]
   - 1.1 Definition of building technology and services
   - 1.2 Process of construction
   - 1.3 Parties involved in construction
   - 1.4 Trades
   - 1.5 Materials

2) Simple structure construction [15 CH]
   - 2.1 Foundations
   - 2.2 Walls
   - 2.3 Floors
   - 2.4 Stairs
   - 2.5 Roofs
   - 2.6 Retaining walls
   - 2.7 Ceilings
   - 2.8 Finishes

3) Load bearing wall construction [10 CH]
   - 3.1 Wall construction
   - 3.2 Slender and stocky walls
   - 3.3 Bracing of walls

4) Site visits to dwellings under construction to understand: [10 CH]
   - 4.1 Materials
   - 4.2 Methods
   - 4.3 Men
   - 4.4 Money
   - 4.5 Markets

4.6 Management
4.7 Machines/tools

5) Construction control
[10 CH]

5.1 Introduction to services
5.2 Construction specialists involved in construction processes,
5.3 Health and safety on construction sites
5.4 National Building Regulations.