

## Diploma in Quantity Surveying - E205 (Part-time)

### 1. Aims and Objectives

The objective behind this course is to provide training at technician level to students in the field of Quantity Surveying. The course content has been structured to give the student a good understanding of the various aspects of the construction industry and the management of civil Engineering.

### 2. General Entry Requirements

As per General Entry Requirements for admission to the University for Undergraduate Diplomas.

### 3. Programme Requirements

Credits in 5 GCE 'O' Level subjects including Mathematics and Physics **and** 2 GCE 'A' Level passes in Mathematics and another science subject.

### 4. Credits per Semester: Minimum 3 credits.

### 5. Programme Duration

	Normal (Years)	Maximum (Years)
Diploma	3	5

### 6. Minimum Requirements for the award of the Diploma

Minimum number of credits for the award of Diploma: 63.5

#### Note 1: Core Modules

Students should satisfy **all core modules** to be eligible for the award of the Diploma.

#### Note 2: Industrial Training

The student will be required to undertake vacation training over a period of 8 weeks, after the Year 2, Semester 2. Industrial training must be completed satisfactorily for the award of the project.

#### Note 3: Diploma project

Dissertation/Project work to be carried out in level 3 will have a load equivalent of 6 hours per week.

### 7. Assessment

The module CIVE 1231D will be assessed solely by continuous assessment.

All modules will carry 100 marks and will be assessed as follows (unless otherwise specified):

Assessment will be based on written examinations of 2-hours duration except where otherwise specified. Continuous assessment carry up to 20-30 % of the total marks will be based on fieldwork, assignments and **should include at least two (2) assignments/ tests per module** .

An overall total of **40%** for combined assessment and written examination components would be required to pass the module, without minimum thresholds within the individual continuous assessment and written examination.

There is no level weightage to modules; i.e. each module carries its credit value.

Dissertation will carry a weightage of 6 credits.

## 8. Lists of Modules

### CORE MODULES

Code	Module Name	Hrs/wk	Credit
		L+P	
ACT 1010(1)	Financial Accounting	3+0	3
CIVE 1141D(1)	Engineering Materials	3+1	3.5
CIVE 1142D(1)	Quantity Surveying 1	3+0	3
CIVE 1143D(1)	Surveying 1	3+1	3.5
CIVE 1144D(1)	Technology 1	3+0	3
CIVE 1231D(1)	Computer Aided Drafting	1+2	2
CIVE 1241D(1)	Economics for Quantity Surveyors	3+0	3
CIVE 1242D(1)	Introduction to Structures	3+1	3.5
CIVE 1243D(1)	Technology 2	3+0	3
CIVE 1240(1)	Industrial Training	-	-
CIVE 2141D(3)	Quantity Surveying 2	3+0	3
CIVE 2142D(3)	Civil Engineering Management 1	3+0	3
CIVE 2040D(3)	Diploma Project	-	-
CIVE 2241D(3)	Civil Engineering Management 3	3+0	3
CIVE 2242D(3)	Building Services	3+0	3
CIVE 2243D(3)	Valuation & Estate Management	3+0	3
CIVE 2040D(3)	Diploma Project	-	6
COMS 1010(1)	Communication Skills	3+0	3
ECON 1015(1)	Economics 1	3+0	3
LAW 1101(1)	Introduction to Law and Legal Methods	3+0	3
LAW 1203(1)	Law of Contract	3+0	3
MGT 1111(1)	Organisation & Management	3+0	3

## 9. Programme Plan

	Code	Module Name	Code	Module Name
<b>YEAR 1</b>				
	<b>Semester 1</b>		<b>Semester 2</b>	
	CIVE 1142D(1)	Quantity Surveying 1	CIVE 1243D(1)	Technology 2
	COMS 1010(1)	Communication Skills	CIVE 1143D(1)	Surveying 1
	CIVE 1141D(1)	Engineering Materials	LAW 1101(1)	Introduction to Law and Legal Methods
	CIVE 1144D(1)	Technology 1	ECON 1015(1)	Economics
<b>YEAR 2</b>				
	<b>Semester 1</b>		<b>Semester 2</b>	
	CIVE 1231D(1)	Computer Aided Drafting	ACT 1010(1)	Financial Accounting
	CIVE 1241D(1)	Economics for Quantity Surveyors	LAW 1203(1)	Law of Contract
	CIVE 1242D(1)	Introduction to Structures	MGT 1111(1)	Organisation and Management
	CIVE 2141D(3)	Quantity Surveying 2	CIVE 1240(1)	Industrial Training
<b>YEAR 3</b>				
	<b>Semester 1</b>		<b>Semester 2</b>	
	CIVE 2040D(3)	Diploma Project	CIVE 2040D(3)	Diploma Project
	CIVE 2142D(3)	Civil Engineering Management 1	CIVE 2241D(3)	Civil Engineering Management 3
	CIVE 2242D(3)	Building Services	CIVE 2243D(3)	Valuation and Estate Management

## 10. Outline Syllabus

### ACT 1010(1) - FINANCIAL ACCOUNTING

Role of Accounting. Accounting Equations. Double-entry Bookkeeping. Books of Accounts. Concepts, Preparing Trial balance and Final Accounts. Journal Entries. Adjustments to Final Accounts. Correction of Errors. Capital and Revenue Expenditure. Bank Reconciliation. Control Accounts. Manufacturing Accounts. Accounting Ratios and Interpretation of Accounts. Cost Accounting. Cost Structure and Selected Applications. Introduction to Budgets.

### CIVE 1141D(1) - ENGINEERING MATERIALS

Properties of Materials. Hydraulic and Bituminous Binders. Glass. Ceramic and Composite Materials. Material Science. Crystal Structure. Plastic Deformation. Properties and Behaviour of Materials.

**CIVE 1142D(1) - QUANTITY SURVEYING 1**

Simple exercises in measurement. Measurement of quantities within predominant Work Sections of Standard Measurement of Measurement Dimension processing using traditional techniques, slip sortation techniques, computer techniques

The Unit Rate. Analysis of composite-Hourly rates. Analysis and synthesis in predominant Work Sections. Pricing of Plants. Preliminaries and variations. Pricing of project overheads. General overheads and profit.

**CIVE 1143D(1) - SURVEYING 1**

Principles of Surveying. Control and Detailed Survey. Adjustments. Aerial Photography.

**CIVE 1144D(1) - TECHNOLOGY 1**

Evolution of constructional form. Historical development of domestic buildings. Introduction to the construction industry. Building codes and Zoning Types of structures and Structural Elements. Site preparation and Layout. Introduction to Architecture.

**CIVE 1231D(1) - COMPUTER AIDED DRAFTING**

Computer hardware & software. File management System analysis. Introduction to facilities and use of a CAD system, and specifically its use in building construction. Introduction to Architecture and Building Construction drawing. Structural Engineering drawings. Building services drawings. Civil engineering drawings. Introduction to GIS.

**CIVE 1240(1) - INDUSTRIAL TRAINING**

**CIVE 1241D(1) - ECONOMICS FOR QUANTITY SURVEYORS**

Nature characteristics and efficiency of the real property market. Economics of the construction industry. Location of economic activity. Regional problems. Urban land use and values. External effects of land use decisions. Development and redevelopment of property. Housing markets. Urban economic problems. Cost benefit analysis. Provision and Finance of public services.

**CIVE 1242D(1) - INTRODUCTION TO STRUCTURES**

Introduction to Structures and Structural Behaviour. Tension and Compression. Section Properties. Shearing Force and Bending Moment. Stresses in Beams. Pin-jointed Trusses. Columns. Combined Stresses. Torsion.

**CIVE 1243D(1) - TECHNOLOGY 2**

The design and construction of more complex forms of building and their associated services. Performance standards of components and materials.

**CIVE 2040D(3) - DIPLOMA PROJECT**

**CIVE 2141D(3) - QUANTITY SURVEYING 2**

Responsibilities of the Quantity Surveyor as Advisor to client. Need for early cost advice and continued cost control. Economics of design. Approximate estimating systems. Types of cost planning. Elemental cost analysis and elemental cost planning. Developer's Budget.

**CIVE 2142D(3) - CIVIL ENGINEERING MANAGEMENT 1**

Structure of the construction Industry. Planning and Programming. Estimating and Tendering. Contract Procurement. Civil Engineering and Building Quantities. Specifications. Site Management.

**CIVE 2241D(3) - CIVIL ENGINEERING MANAGEMENT 3**

Risk Management. Law of Contract and Tort. Standard Forms of Contract. Obligations and Liabilities of Client. Contractor and Engineer. Contract Administration.

**CIVE 2242D(3) - BUILDING SERVICES**

Mechanical and Electrical Services installed in Buildings: Procurement, Installation, Maintenance and Management.

**CIVE 2243D(3) - VALUATION AND ESTATE MANAGEMENT**

Principles of Valuation. Land Use and land management studies. Land values. Valuation. Valuation rating and taxation. Relevant legislation.

**COMS 1010(1) - COMMUNICATION SKILLS**

Theory and Models of Communication. Effective Use of English. Written Communication. Oral Presentation. Flow in Organisations. Using the Media.

**ECON 1015(1) - ECONOMICS 1**

Price Theory. Production Costs. Market Structure. Risk and Uncertainty. Market Failure. National Income Accounting. Income Determination. Monetary and Fiscal Policies. International Trade.

**LAW 1101(1) - INTRODUCTION TO LAW AND LEGAL METHODS**

Law and Other Social Sciences. Sources of Law. Distinction between Public and Private Law. Criminal and Civil Law. Role of Law. Common Law and Civil Law Systems. Case Laws Techniques. Statutory Interpretation.

**LAW 1203 (1) - LAW OF CONTRACT**

Introduction. The Concept of "Obligation". The Principle of "Liberté Contractuelle". Classification of Contracts. Formation of contract. Privity of Contract. Remedies for Breach of Contract. "Régime des Obligations".

**MGT 1111(1) - ORGANISATION AND MANAGEMENT**

Introduction to Management. The Evolution of Management. Managerial Roles and Functions. Planning Decision-making. Organising. Motivation. Leadership. Controlling.

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