

DEPARTMENT OF CONSTRUCTION MANGEMENT

BSc (Hons) QUANTITY SURVEYING

PROGRAMME LEARNING OUTCOMES

On successful completion of the course, graduates will be equipped with sound theoretical knowledge and practical skills to enable them think analytically and conceptually in finding solutions to existing and emerging problems in building and civil engineering construction. Graduates of the department are equipped to:

- i. Engage in the professional practice of Quantity Surveying, serving in the public or private sector.
- ii. Actively participate in professional organisations that promote efficiency and ethical practice within the construction process while encouraging continuing self-development.
- iii. Pursue post graduate studies in Quantity Surveying and related fields and in other related professional areas of expertise that fall within the broad discipline of the built environment.
- iv. Be registrable graduates. They will be eligible to take up careers in the construction industry in the areas of construction cost modelling, project management among others.
- v. Be able to get employment in government institutions, Consulting Quantity Surveying firms, construction firms, local authorities, parastatals, financial institutions and other players in the construction industry as well as in self-employment.

A. Knowledge and Understanding

At the end of the programme students should be able to demonstrate knowledge and understanding of:

- A1.** The seminal sciences and design approaches and procedures which are needed to creatively and effectively address construction cost management problems.
- A2.** The codes of practice and the various standards relevant to the Quantity Surveying practice.
- A3.** The fundamental principles in construction management
- A4.** The various types of existing and newly developed building materials, their properties, and performance, and also the specification of suitable materials to match different Architectural and Engineering design solutions

- A5.** The underlying principles of various manufacturing, fabrication, and construction processes needed for realising necessary specification, measurement and estimation (quantity and cost).

B. Cognitive/Intellectual skills/Application of Knowledge

At the end of the programme students should be able to:

- B1.** Clearly interpret technical drawings (architectural, structural, electro-mechanical, etc) and translate them into project documents.
- B2.** Evolve innovative office practice approaches and solutions, which address challenges at work and in society.
- B3.** Effectively manage construction process.
- B4.** Economically evaluate construction methods, emerging building materials and also appropriate technologies in construction.

C. Communication/ICT/Numeracy/Analytic Techniques/Practical Skills

At the end of the programme students should be able to:

- C1.** Use specialized skills and techniques gained to interact with team members in the construction industry, project administration and control.
- C2.** Provide objective, accurate and reliable cost advice.
- C3.** Prepare project documents
- C4.** Analyse investments and developments for clients
- C5.** Interpret and manage contracts in the construction industry.
- C6.** Plan and manage work procedures and time schedules in the construction projects

D. General transferable skills

At the end of the programme students should be able to:

- D1.** Prepare project proposals and make oral and written presentation in form of reports.

- D2.** Effectively communicate with technical personnel (foremen, clerk of works, and contractors, and suppliers) and artisans (masons, carpenters, plumbers and other building specialists).
- D3.** Use relevant communication tools, particularly ICT
- D4.** Guide arbitration and alternative dispute resolution methods
- D5.** Provide general community leadership in development with well-structured and clear thinking, presentation of ideas, and management of tasks.
- D6.** Work independently with minimal supervision
- D7.** Demonstrate Time-Management skills
- D8.** Visual, Oral and Responsive Communication Skills
- D9.** Display Team-work and interpersonal skills
- D10.** Show Investigation and Research Skills
- D11.** Aply exhibit Problem Solving Skills
- D12.** Demonstrate Self-learning skills