

Bachelor of Science (Hons) Quantity Surveying

KP/JPS(A5913)01/12

A Quantity Surveyor is a construction professional providing economic, cost and contractual advice on all aspects of the construction process. Quantity surveying, as a profession requires a combination of technical, economic, legal and managerial skills. Thus, this is a professional programme that aims to produce graduates who are competent in delivering such services. The programme gives students a thorough understanding of the roles of a Quantity Surveyor in every stage of the construction and development process, from the project brief issued to the lead consultant through all the design and planning stages to the construction, completion, occupation and maintenance of the facilities so as to meet the objective of 'value for money'. Besides academic study, every student will undergo a minimum of six months practical training in a quantity surveying firm or construction-related company. Students will further undertake a major project in the final year, which ensures the integration of all aspects of the programme before graduation.

Programme Aim:

The Bachelor of Science (Hons) Quantity Surveying programme is developed to respond to the continuous high demand for qualified and competent quantity surveyors by the local as well as international construction industry. The aim of this programme is to produce quantity surveying graduates with strong grasp of good fundamental theoretical principles and skills in the field of quantity surveying that would prepare them well in launching their professional career.

Objectives of the Course of Study

1. To provide undergraduates with a sound foundation in the principles and practices of quantity surveying.
2. To produce IT-savvy graduates who are effective problem-solvers, knowledgeable in applying logical, critical and creative thinking to a range of problems.
3. To produce graduates who are capable of executing their responsibilities with professionalism and capable of life-long learning in the pursuit of personal development and betterment of society.
4. To inspire an interest in the graduates to pursue research and development in quantity surveying and its related disciplines.

Programme Learning Outcomes

After completing this programme, students will be able to:

- A. Demonstrate good knowledge of economic and sustainable building, civil engineering and environmental services design, construction and maintenance.
- B. Demonstrate good and accurate techniques and skill of measurement and valuation of construction works.
- C. Demonstrate good and accurate techniques and skill of estimating, construction economics and development economics.
- D. Demonstrate good knowledge of law, contract, procurement methods and dispute resolutions.
- E. Demonstrate good knowledge and skills of communication.
- F. Demonstrate good basic knowledge of project management, facilities management and current construction issues.

- G. Relate the importance of built environment issues such as ethics, culture, social harmony, entrepreneurship, human relation, green technology as well as incorporating them in the built environment.
- H. Recognise the importance and link between practice, theory, research and continuous learning.

Recognition

The 4 year degree programme is recognised by the Malaysian Government and accredited by the Board of Quantity Surveyors Malaysia (BQSM) and Royal Institute of Chartered Surveyors (RICS).

Careers

There is always a great demand for competent quantity surveyors both within the mainstream construction industry and in other related sectors. Graduates will possess the necessary knowledge and skills to work in quantity surveying firms or with project management consultants, building and civil engineering contractors, specialist contractors and property developers.

Subjects

Year 1

Construction Technology I
Construction Technology II
Building Materials
Technical Drawing and CADD
English for Engineering
Site Surveying
Measurement of Building Works I
Building Services and Equipment I
Building Structural System

Elective* (Choose 1 subject)

Management Principles
Organisation and Human Resource

Year 2

Measurement of Building Works II
Building Services and Equipment II
Quantitative Analysis and
Operational Research
Measurement of Civil and
Infrastructure Works
Construction Financial Practice
Economics of the Construction Industry
Introduction to Law and Malaysian Legal System
Professional Practice I

Year 3

Contract Administration I
Measurement of Building Works III
Estimating
Applied Construction Technology and Maintenance
Construction Management
Construction Economics
Industrial Training

Year 4

Contract Administration II
Construction Law
Computer Aided Quantity Surveying
Project Management
Development Economics
Value Management
Project
Professional Practice II

Elective* (Choose 1 subject)

Current Construction Issues
International Construction

*Subject to change/availability

MQA Subjects

Bahasa Kebangsaan/Foreign Language
Pengajian Malaysia
Pendidikan Moral/Pengajian Islam

University Subjects

Co-Curriculum
Sun Zi's Art of War and Business Strategies