



PROGRAMME SYNOPSIS

Year 1 Semester 1

Course: BSQ3154 Construction I

Synopsis:

An introduction to construction, with particular emphasis to low rise dwellings construction methods, different parts of building elements and their respective functions, properties, manufacture and applications of key construction materials.

Course: BSQ3133 Building Services I

Synopsis:

This course provides an introduction to the major engineering services found in buildings and explores the technological fundamentals of various mechanical and hydraulic services: water supply, ventilation, etc.

Course: BQS3183 Introduction to Draughtsmanship

Synopsis:

The module focuses on the features, commands and techniques of AutoCAD to enable the students to basis develop 2D drawings as well as 3D modelling.

Course: BSQ3373 Introduction to Quantity Surveying

Synopsis:

An introduction to built environment, with particular emphasis to observe through a holistic approach.

Course: BSQ3353 Fundamentals of Law

Synopsis:

To provide an introduction to the Malaysia legal system with particular emphasis on related law of tort to the construction industry.

Course: UCS 3122 Professional English: Essential Communication Skills

Synopsis:

This course provides a comprehensive reference guide on technical communication principles, skills and practice in workplace. It explains the principles of effective communication, both written and oral, and provides solid advice and practical guidelines on how to strengthen communication skills and produce good technical writing. It introduces the theory, specimen documents, suggested layouts and explanations that develop skills and understanding.

Year 1 Semester 2

Course: BSQ3164 Construction II

Synopsis:

This course focuses on the functional requirements and construction techniques of high rise buildings especially in the foundation systems, basement construction, reinforced concrete construction and enclosure systems.

Course: BSQ3214 Building Measurement I

Synopsis:

An introduction to the Standard Method of Measurement of Building Works, its importance and application; methods of recording dimensions, checking and correlating plans and specifications; principles of measurement and billing; Bill of Quantities format; elementary billing and measurement of basic trades; advanced billing and measurement of substructure, superstructure, wall, door and window for low rise building.

Course: BSQ3413 Building Economics I

Synopsis:

An introduction to basic concept of economics, and its relationship to construction industry. Provides an understanding of the key design variables and functional requirement and construction methodology that impact on economic value, the concepts and application of life cycle costing.

Course: BSQ3123 Principles of Structures

Synopsis:

The module will be looking at elastic and statically determinate structural systems, providing a qualitative and quantitative appreciation of the structural behavior of frames elements.

Course: BSQ3143 Building Services II

Synopsis:

This course provides an introduction to the major engineering services found in buildings and explores the technological fundamentals of various mechanical, electrical and hydraulic services installations: water supply, air-conditioning, electrical, lifts, fire-fighting, etc.

Year 2 Semester 1

Course: BSQ3174 Construction III

Synopsis:

This course focuses on advanced technology systems with particular emphasis to the structural steelwork, prestressed concrete members and modular system. Students also study in detail the equipment employed in the construction, defects and remedies works in building, site safety and management.

Course: BSQ3233 CE Construction & Measurement I

Synopsis:

An introduction to civil engineering works measurement according to CESMM. Measurement skills are focused on element of site clearance, earthworks, concrete structure and protection work and pre-stressing works.

Course: BSQ3224 Building Measurement II

Synopsis:

Introduction to the Standard Method of Measurement of Building Works; methods of recording dimensions, checking and correlating plans and specifications; principles of measurement and billing; Bill of Quantities format; elementary

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billing and measurement of basic trades; superstructure, structural steel works, mechanical and electrical services and external works for high rise building.

Course: BSQ3423 Building Economics II

Synopsis:

An insight into preparation of elemental cost analysis, factors that might affect the development including land use & value determinants. The connection between macro economy & construction industry is being studied.

Course: BSQ3513 Principles of Management

Synopsis:

An overview of management theory, organisational goal and structure, managerial decision making, leading, motivating, controlling and managing people.

Course: MPU 3412 Co-curriculum

Synopsis:

Students will take part in organizing university's and outside events to gain opportunity of training and learning of specific techniques and skills related to the themes of the events apart from participating in soft skills improvement programs while joining other outdoor sports activities. These will allow students to practice effective communication skills, both verbally or written, polish managerial skills while becoming leaders and managing events in the university, and cultivate awareness of lifelong learning while exposing to well-diversify of knowledge, skills and techniques.

Year 2 Semester 2

Course: BSQ3333 QS Practice I

Synopsis:

An introduction to pre-contract practice for a quantity surveyor which includes understanding the purpose of Bills of Quantities, specification, tender document, tender submission and evaluation, etc. with particular emphasis to the various methods of procurement.

Course: BSQ3243 CE Construction & Measurement II

Synopsis:

A further extension of measurement skills with particularly focused on element of drainage works, road works, bridge works and water reticulation works.

Course: BSQ3254 Construction Estimating

Synopsis:

An introduction to construction estimating including terminology, risks, type of estimating, planning and management of estimating process. The course develops practical skills in the analysis of material cost, plant cost and labour cost, unit rate cost estimating based on trades, sub-contractor's pricing, cost estimates for preliminaries works, mechanical and electrical works.

Course: BSQ3363 Law of Contract

Synopsis:

An introduction of the elements of the law of contract especially those in relation to the construction industry.

Course: UCS 3212 Creativity and Innovation

Synopsis:

This subject explores the creativity and innovation of thinking skills with an exposure of principles of thinking, methods of generating ideas, creativity in problem solving techniques, creativity in writing as well as giving the experience of producing creative and innovative product through project given.

Course: UCS 3412 Bahasa Kebangsaan

Synopsis:

Kursus ini membolehkan pelajar mempertingkatkan kecekapan berbahasa sesuai dengan intelek pelajar untuk berkomunikasi secara lisan dan tulisan dalam konteks rasmi, kreatif dan bukan kreatif. Mata pelajaran ini disediakan untuk mempertingkat kecekapan berbahasa sesuai dengan intelek pelajar untuk berkomunikasi dengan lisan dan tulisan dalam konteks rasmi, kreatif dan bukan kreatif.

Year 3 Semester 1

Course: BSQ3638 Practical Training & Report

Synopsis:

The students are exposed to the ethic of quantity surveying practice and the professional responsibilities of a quantity surveyor. They will experience the work nature of this profession including of measurement, site valuation, writing technical report, daily communication, technical evaluation and etc. so as to anticipate their future working environment upon graduation.

Course: BSQ3644 Practical Task

Synopsis:

The student is required to undertake a quantity surveying related task preferably a project that he or she has been involved throughout the practical training period.

Year 3 Semester 2

Course: BSQ3713 Research Methodology

Synopsis:

An introduction to the research methods with particular emphasis to the built

environment. **Course: BSQ3443 Urban Land Development Synopsis:**

This subject considers the background of property market and development process, property development considerations, site layout and design, development control, development appraisal, funding for the development, development risk and sustainable development.

Course: BSQ3543 Site Planning & Management

Synopsis:

This module encompasses the site personnel and responsibility, site planning, supply chain management, safety and health management, project supervision and building inspection, risk and hazard management, and also, environmental and waste management.

Course: BSQ3614 Integrated Project I

Synopsis:

The Project is designed to draw on the individual student's academic experience gained throughout the academic year and focusing on preparation of cost plan in any of the following buildings:

- Double storey residential building, 3 storey commercial building
- 3 storey educational building and Industrial building

Course: BSQ3523 Project Management

Synopsis:

An overview of project management structure, prime objective of project management, roles of a project manager from inception till project close-up and feedback, common techniques used to facilitate the project management tasks and aspect of occupational health and safety are considered in principles.

Course: UCS 3112 Communication in the Workplace

Synopsis:

This course comprises of basic knowledge and skills in workplace communication, providing a fundamental exposure and guide to the various forms of communication in the workplace covering both verbal communications and written communication. These include practice in conveying ideas and opinions, writing proposals and business letters, preparing reports, oral communication and presentation.

Course: UCS 3312 Green Technology

Synopsis:

This subject explores the green technology with basic knowledge and fundamental green principles in recycling, green home living, green daily life, green buildings, alternative energy, green transportation, green business and green economics.

Year 3 Semester 3

Course: MPU 3113 Hubungan Etnik

Synopsis:

This course focuses on concepts of culture and ethnic relations, specially emphasises on the latest development in Malaysia. It includes the concepts of ethnic relations, insights of ethnic relations in Malaysia in the aspects of economics, politics, constitutions and religions in Malaysia. It also discuss about the challenges for the enhancement of the ethnic relation and the roles of the government and the society.

Course: MPU 3123 Tamadun Islam & Tamadun Asia (TITAS)

Synopsis:

This course focuses on concepts of culture and ethnic relations, specially emphasises on the latest development in Malaysia. It includes the concepts of ethnic relations, insights of ethnic relations in Malaysia in the aspects of economics, politics, constitutions and religions in Malaysia. It also discuss about the challenges for the enhancement of the ethnic relation and the roles of the government and the society.

Course: MPU 3212 Malaysian Economy

Synopsis:

This course provides the student with an overview of the Malaysian economy, the role of the government and its economic interaction with other countries. Various topics will be discussed, including: the government economic policies and activities (primary, secondary and tertiary), Collin Clark's hypothesis of economic development, key

growth engines of Malaysian economy towards high income economy (Iskandar, NCER, ECER, SCORE, and SDC), and Economic Transformation Programme (ETP).

Course: MPU 3312 Entrepreneurship Skills

Synopsis:

This course also provides an understanding of an individual as entrepreneur and the process of creating and growing a new venture. The topics include theory of entrepreneurship, types of entrepreneurship, the importance of entrepreneurship and factors affecting entrepreneurship, entrepreneurship develop in Malaysia, entrepreneurial creativity and innovation, opportunity identification, business plan, business support system and form of business entities and relate legal requirements.

Year 4 Semester 1

Course: BSQ3724 Dissertation

Synopsis:

This module builds up the academic ability of students to study a problem area thoroughly and independently, thereby producing and defending a written dissertation of honours degree standard.

Course: BSQ3343 QS Practice II

Synopsis:

An in-depth discussion of quantity surveying practice at post contract stage which includes the preparation of variations, certificate and payments, delay, disruption and claims with inclusion of cost control and monitoring. Besides, the management, marketing and business practices for professional service of quantity surveying are also emphasized.

Course: BSQ3624 Integrated Project II

Synopsis:

The Project is designed to draw on the individual student's academic and training experience gained throughout the academic year and focusing on feasibility studies of any development project.

Course: BSQ3563 Financial Management

Synopsis:

The module equips the students with the skills that would be expected from a commercial manager responsible for the finance function of a firm.

Course: BSQ3553 International Construction

Synopsis:

An introduction to the international construction from a holistic perspective.

Course: BSQ3323 Construction Law Synopsis:

An enhancement of the law related to construction contracts with an introduction of contract administration via common standard conditions of contract in Malaysia.