Subject Code: BRE353

PROJECT AND CONSTRUCTION MANAGEMENT

Level: 3
Contact Hours: Lect:21 Sem/Tut:21
Student Effort Hours: 120

Assessment Method: Coursework 50% Examination 50%
Credit Value: 3

Pre-requisites: BRE2921, BRE352 or equivalent
Co-requisites: Nil
Exclusions: Nil

Subject Leader/Lecturer/Dept.: W.M. Lam (BRE)

Subject Aim:

This subject is intended to:

1. Extend students’ understanding of management principles and the legal environment to develop and to consolidate the basic knowledge of project and construction management in the built environment.
2. Develop students’ understanding of good business practice in the built environment, as applied to operations management.

Learning Outcomes:

Students will demonstrate their ability to:

1. Understand the basic principles and practice of project management in the construction industry;
2. Understand the basic nature of business organisations in the construction industry, their efficient organisation, social and ethical responsibility;
3. Apply operational planning techniques for control of construction & development projects;
4. Use effectively a range of communication skills;
5. Use performance data of management operations and organise resources;
6. Make appropriate operational decisions in business organizations;
7. Contribute as a team member and to lead effectively

Brief Syllabus Content:

Business functions: production, purchasing, accounting, estimating, surveying, personnel, research, investigation, design, marketing and finance.

Management skills: report writing, scheduling, interpersonal skills and methods for problem solving.

Structure of the construction and real estate industry: nature; internal and external environment; professional organizations, statutory institutions and associated bodies; roles and relationships amongst clients, the various professional parties in the design and production teams and suppliers – the fragmentation of the construction industry and its implications in professional practice and contractual arrangements.

Project Management in Construction: the project life-cycle, introduction to project procurement, production management, facilities & maintenance management and the design and production relationship. Project planning and programming techniques; resource allocation and levelling; selection of appropriate construction methods. Information management for quality management (QA, TQM), environmental management, production control and records.


Social responsibility and ethics.

Teaching activities: Lecture (LT)/Tutorial (TU)/Seminar (SM)/Drawing (DW)/Laboratory or Practical (LB)/Studio (ST)/Workshop (WS)/Project (PJ)/Field Study (FS)/Guided Study (GS)/Visit (VS)
Learning and Teaching Approach (tasks and activities designed to achieve learning outcomes):

Lectures will be used to introduce principles and theories whilst the small group work and workshops will be used for the application of the principles and theories to management problems through role-play, case studies, simulation and management games.

Assessment (assessment of student performance resulting from learning tasks):

Examination and coursework will constitute 50% and 50% of the overall grade of the subject respectively. The coursework assessment shall be based on the workshops, seminar/tutorial activities, seminar/tutorial discussion, assignments and business report. Some of these will be summative assessment with the grades contributing to the subject grade. Other assessment will be for formative purposes only.

Reading List:

Recommended:

Notes and study guide materials available on the SMILE website.

Supplementary: