

BSc (Hons) Construction Project Management

Module	Learning Outcome
Site Management	<ul style="list-style-type: none"> ● Introduce students to the nature of construction sites, management approaches and techniques that can be applied in the context and culture of site-based production ● Introduce student to the principles and reason for establishing an accurate planning, monitoring and control system for all aspects of on-site production including an appreciation of the integration require between off site and onsite manufacture processes and relationships with the supply chain. ● Introduce students to decision making appropriate for Quality Control, Health and Safety and Sustainability Management during on site production including method statements, risk assessments, waste management and other associated activities with this regards.
Project Management and Health and Safety Risk Management	<p>The syllabus content will cover the feasibility, planning and implementation stages of the project life cycle</p> <p>Strategy</p> <ul style="list-style-type: none"> - Strategic Choices - Project Management theory and methodology - Programming and risk programming - Budgeting - Organizational structures for projects - Procurement strategy - Collaboration and partnering - Stakeholder management <p>Feasibility and project definition</p> <ul style="list-style-type: none"> - Definition, life cycle analysis, costing and roles - Risk assessment, management and behavior - Project appraisal - Cost benefits analysis - Value management - The development of the business case - Finding sources and use - Gateway review <p>Implementation</p> <ul style="list-style-type: none"> - Resourcing and planning - Spatial and project information system. Eg Building Information Modelling

	<ul style="list-style-type: none"> - Health and safety risk assessment and management - Construction Design and Management Regulations - Construction Management - Information Management and decision making - Cost control and cost planning methods - Programme control and monitoring - Quality Management - Commissioning - Project review and benchmarking - Working in teams : leadership strategies and teamwork : Motivating people
Professional Practices for Built Environment Professionals	<ul style="list-style-type: none"> ● Understand the role of their chosen professionals within the construction and property sector (A1) ● Identify their own career goals and engage in the processes required to secure employment (A1) ● Appreciate the practice of reflection in relation to professional development (A1) ● Demonstrate an understanding of the differences between a research methodology, or perspective, and research methods (A1 and A2) ● Evaluate the relevance and quality of information and data obtained from primary and/ or secondary sources and demonstrate appropriate use of qualitative and quantitative research methods (A2) ● Conduct a comprehensive literature review on a specific subjects (A2) <p>In addition, the educational experience may explore, develop and practices but not formally discretely assess the following;</p> <ul style="list-style-type: none"> ● Make use of online databased and library catalogue & demonstrate academic literacy ● Academic writing and study skills
Procurement and contract Practice	<ul style="list-style-type: none"> ● Gain an overview of the contractual role undertaken by construction professionals in practice and equip students with practical skills that can be developed in the workplace (A and B) ● Demonstrate an ability to apply the law and to solve practical legal problems by answering questions based on actual or hypothetical situations (A) ● Understand the main principles which govern contracting within the construction industry and discuss the strengths and weaknesses of different procurement approaches to construction contracts (B) ● Identify and appraise key building contract procedures and the roles and responsibilities of the various parties involved including legal aspects of Building Information Management Systems (A) ● Identify the form of the various building contracts and the difference routes of building procurement available (B)

	<ul style="list-style-type: none"> ● Evaluate the pre contract and post contract procedures in building practices in building contracts as well as the procedures used during the life of the contract (A)
Construction Technology and Building Services	<ul style="list-style-type: none"> ● This module seeks to highlight links between related aspects of the design, site practice and operation of buildings and services installations including building performance at the point of occupations ● It consolidates the ideas of performance and construction and to extend the range of building use and technology to include commercials and industrial buildings, with their related production processes and technologies, including method, sequence and resources requirements. ● It also extends a basic appreciation of environmental science developed at level 1 to examine how principles are applied to create successful engineering systems in buildings. Emphasis will be placed on means employed by buildings designers and developers to accommodate the needs of building users and managers.
Strategic and Operational Management	<p>This module aims to provide students with the opportunity to consider the role of strategic and operational management within construction organizations and projects. Learners will examine various approaches to the strategic management of organizations and consider how they relate to project processes, construction markets, to external environments and other organizations; this will include reviewing some of the common and topical management issues that the industry needs to address to meet the increasing demands of client and stakeholders</p> <p>Throughout the module the links between strategy and operational management will be developed; and a significant element of the module will address the wide range of issues facing modern construction managers. The scope, use a limitations of qualitative and quantitative models will be examined, with particular reference to their application for improving project performance and productivity within the construction industry.</p>
HR and Financial Management	<p>To provide an understanding of the financial planning, management and administration of construction projects and site operations and resource needs.</p> <p>To facilitate student recognition of financial and human resource factors and constraints and their evaluation in the decisions making process.</p> <p>To build on studies of economics, finance and management completed in previous years and to integrate them into a study of the management of the construction enterprise at project and operations level.</p>
Collaborative Practice	<ul style="list-style-type: none"> ● Understand the concept of professionalism and the duties and responsibilities of build environment professionals (With particular emphasis on the role of their own prospective profession) to clients, building users, constructors, co-professionals and wider society ● Understand the role of the main professions involved in the development process and the nature of collaborative work in a multi-disciplinary team and critically

	<p>reflect on the impact of building projects on clients, users and the wider community taking into account both positive and negative consequences of development including environmental impact.</p> <ul style="list-style-type: none"> ● Understand the legal, professional and statutory responsibilities of the built environment professionals and the organizations, regulation and procedures involved in the negotiation and approval of designs, including land law, development control, building regulations and health and safety legislation. ● Interpret the needs and aspirations of clients and identify and evaluate a range of alternatives in responding to the brief and considering the appropriate development process ● Consider and interact and engage with information generated through collaborative working to inform decision making and to justify appropriate solutions <p>In addition to the educational experience will explore, develop, and practices the followings</p> <ul style="list-style-type: none"> ● Working as a member of a group and meeting obligations to others within the module cohort ● Use visual, verbal and written communication methods and appropriate media (Including Sketching, modelling, digital and electronic techniques) to clearly and effectively convey and critically appraise design and proposals ● Professional habits of work, time-keeping and punctuality.
<p>Commercial Development</p>	<ul style="list-style-type: none"> ● Differentiate between a range of different construction technologies and building services installations commonly used for contemporary commercial framed buildings. ● Demonstrate how good building design can support the business objective of an occupier and contribute to the notion of sustainable development ● Recommend appropriate strategies and construction technologies for the design of specific elements of buildings, demonstrating the benefits of adopting an holistic approach to building design ● Analyse a development proposal in regards to efficiencies across a range of physical, financial and environmental parameters and apply a range of modelling techniques in order to conduct a comprehensive appraisal of the options within that proposal. ● Analyse a client brief, evaluate key parameter from that brief and formulate comprehensive development solutions that respond to the brief in a professional manner <p>In addition, the educational experience may explore, develop, and practise <u>but not formally discretely assess</u> the following:</p> <p>Working as a team member.</p>