



PROGRAMME SPECIFICATION

Part 1: Basic Data		
Awarding Institution	UWE	
Teaching Institution	UWE and Ho Chi Minh City University of Transport	
Delivery Location	Frenchay Campus; Ho Chi Minh City University of Transport; Auston Institute of Management, Singapore	
Faculty responsible for programme	Faculty of Environment & Technology	
Department responsible for programme	Department of Architecture and the Built Environment	
Modular Scheme Title	Undergraduate Modular Scheme	
Professional Statutory or Regulatory Body Links	Chartered Institute of Building (CIOB) Accreditation for UWE delivery until 2018 Accreditation for the revised programme is being sought	
Highest Award Title	BSc(Hons) Construction Project Management	
Default Award Title		
Interim Award Titles	BSc Construction Project Management DipHE in Construction Project Management Certificate of Higher Education in Construction Project Management	
UWE Progression Route		
Mode(s) of Delivery	Full Time, Sandwich, Part Time at UWE Full Time at Ho Chi Minh City University of Transport Full Time and Part Time at Auston Institute of Management	
Codes	UCAS:K252	JACS:
	ISIS2: K25D K25D (SW): K25D13 (FT/PT); K25J (Auston IM); K25G (Ho-Chi-Minh)	HESA:
Relevant QAA Subject Benchmark Statements	Construction, Property and Surveying	
CAP Approval Date	16 Jan 2018	
Valid from	May 2018	
Version	5	

Part 2: Educational Aims of the Programme

The aim of the Faculty's construction project management programmes is to respond to the need for effective practitioners by offering programmes that are intellectually challenging and provide a mixture of theoretical and practical learning experiences. The practitioner approach is intended to produce construction managers with a strong orientation towards problem solving, underpinned by theoretical knowledge.

This programme will produce graduates with a broad range of construction project management skills, who have the technical depth required by the profession and the necessary breadth of knowledge required to see their roles in a wider context and work effectively alongside other built environment professionals. The need to develop collaborative working is particularly relevant to the modern construction industry which has to meet the challenges of low carbon construction.

The overall aims of the programme are to:

1. Motivate and equip graduates to play a leading role in meeting the challenges posed by changes in the construction industry, and to exploit the opportunities offered by these changes.
2. Develop students' intellectual, analytical and problem solving skills and encourage the development of mature and independent judgement leading to effective decision making.
3. Provide a forum for learners to share their developing experience, knowledge and skills, in particular with students on other built environment professional awards.
4. Enable students to identify and evaluate research and innovation needs within the profession and provide support for research and project work.
5. Set professional activity within the context of the political, economic, social, legal, technical and environmental factors that influence the evolution and development of the built environment.
6. Engender an attitude within students towards intellectual enquiry and learning which will encourage students to consider the award as only the first stage of a lifelong educational process, including the possibility of embarking on further studies at postgraduate level.

Part 3: Learning Outcomes of the Programme

The award route provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes in the following areas:

Learning Outcomes	Teaching, Learning and Assessment Strategies
A Knowledge and Understanding	
A Knowledge and understanding of: <ol style="list-style-type: none"> 1. The scope and complexity of development and construction processes and the economic, political and social factors that shape these processes 	Teaching/learning methods and strategies: <p>Acquisition of these outcomes will primarily be through lectures and seminars/workshops and lab sessions with sessions designed to encourage interaction of the student and</p>


Part 3: Learning Outcomes of the Programme	
<ol style="list-style-type: none"> 2. The functional performance of the building fabric, its structure and environmental systems, and the assumptions / principles that lead to an effective combination of these aspects in the design and construction of buildings 3. The scientific properties of building materials and components and their likely behaviour; during construction, in operational use and in the subsequent processes of disposal or recycling; and consideration of how these help to deliver sustainable construction. 4. The management of health and safety in the construction context, the legal and ethical responsibilities placed upon construction practitioners and how these are effectively fulfilled. 5. The strategies employed to manage people and lead the construction process. 6. The elements of construction contracts and how the resultant obligations and responsibilities placed upon the parties involved influence the cost and administration of the project. 7. Contemporary construction procurement methods and their associated contractual arrangements. 8. The use of IT in the construction process and its evolving strategic importance for the management of the construction process 9. The needs of construction industry clients and the importance of time, cost, quality and value management throughout the whole life cycle of projects. 10. A range of tools and techniques that are used in an operational management role to achieve the optimum utilisation of all the resources used in the production process. 11. The variable internal and external factors affecting production technologies, resources of production, buildability and the production process. 12. The current management paradigms and strategies and their implementation in the context and culture of the construction industry. 	<p>tutor.</p> <p>Candidates will consolidate their knowledge and understanding through directed reading, site visits, field trips and other formative work and will be encouraged to share and develop that knowledge. IT applications and software will be used where appropriate in technical calculations, project management and students will have access to electronically produced support materials for modules on Blackboard.</p> <hr/> <p>Assessment:</p> <p>The knowledge base is tested by examination, oral presentations, experimental work in the lab and assessed coursework including project case studies.</p>

Part 3: Learning Outcomes of the Programme	
B Intellectual Skills	
<p>By the end of the programme, the student should be able:</p> <ol style="list-style-type: none"> 1. To bring a broad professional and ethically informed perspective including safety, environment and social awareness, to bear on issues relating to construction. 2. To analyse the requirements of construction industry clients and develop sustainable solutions that provide value throughout the whole life cycle of projects. 3. To analyse situations and problems critically, objectively and logically and subsequently postulate, justify and implement realistic solutions. 4. To demonstrate imagination and creativity in the resolution of problems and project management. 5. To recognise the role of value judgements in social, economic and technological decisions, and identify their source, effect and the necessity of arriving at realistic solutions. 6. To undertake research and critically evaluate business and construction information from a range of sources, to support innovation and decision making. 7. To analyse and plan how resources used in the construction process can be utilised to achieve optimum resource utilisation and productivity to ensure that the design is brought to fruition to the required levels of quality and reliability within financial, legal, time environmental and safety constraints. 8. To communicate and justify solutions to those concerned with the design and production of buildings. 	<p>Teaching/learning methods and strategies:</p> <p>Intellectual skills are developed through seminar discussions and individual tutoring for the dissertation. Evaluation and problem solving skills are developed by using projects which use real life development sites or case studies with client briefs by considering spatial, structural and servicing design and management options to satisfy clients with tutors or in peer groups.</p> <p>Students will be expected to undertake formative work and will receive feedback to enhance their intellectual skills. Tutors provide feedback individually and in groups.</p> <p>Respect and awareness of the objectives and values of others are developed through the inter-professional modules, which require students to work in groups with students drawn from across the Faculty's professional programmes. Students on the part time programme are encouraged to develop this awareness through reflection on their interactions with other professionals in the workplace in work based learning modules .</p> <p>Assessment:</p> <p>A variety of assessment methods are used but the use of oral presentation, research and project reports is the most common approach. Project and design reports may be based on a portfolio or work completed over the session. Analytical reports will also be used as well as discursive questions in open and closed examinations.</p> <p>Interdisciplinary projects are used to assess students' ability to integrate a variety of approaches and sources of information including some peer group assessment and oral presentations.</p>

Part 3: Learning Outcomes of the Programme	
C Subject, Professional and Practical Skills	
<p>By the end of the programme, the student should be able:</p> <ol style="list-style-type: none"> 1. To employ laboratory based experimental work to enhance the understanding of scientific concepts. 2. To produce well-proportioned sketches and undertake and interpret formal drawings. 3. To analyse both design and operational practice, and develop safe systems of work, which protect the environment and the health and safety, of those affected by construction processes. 4. To apply mathematical applications appropriate to the study of construction. 5. To employ planning models to identify and schedule the types of resources needed for building operations. 6. Calculate and produce cost analysis and estimating data in standard formats. 7. To design and execute research using a variety of data collection methods including drawing on the existing literature and using experimental methods. 8. To plan and co-ordinate both people and technical tasks to achieve the overall work functions associated with the management of construction, including the co-ordination of interfaces between different trades. 9. To plan developments appropriate to the project environment and market conditions. 10. To develop operational methods that can be conducted in an economic, safe and sustainable manner. 	<p>Teaching/learning methods and strategies:</p> <p>Experimental work and data analysis are taught in lectures, seminars and supervised lab sessions. Sketches are tutored in small group seminars; finance and planning models e.g. cost planning and project management case studies are discussed in seminars; proprietary software applications and simulations are used in Site Management and Strategic Operational Management. Videos, slides and field trips and visiting speakers are used to illustrate techniques and management styles, safe methods of working and problem solving.-</p> <p>The ability to design and undertake research is introduced through Professional Practice for Built Environment Professionals and Procedure and Practice modules and Work based learning modules at level 2 and consolidated and applied in the Level 3 Dissertation</p> <p>The sandwich programme offers students the opportunity to gain industry based experience. Field work provides similar opportunities to site visits.</p> <p>Assessment:</p> <p>Reports, other written assignments and portfolios are handed in for summative assessment, testing the application of formulae, providing discussion and interpretation of experimental results and data analysis. Statistical, financial and cost analysis and IT applications are also used and reports submitted which apply these to case study data.</p> <p>The ability to design and undertake research is assessed through a range of projects and finally via {Level 3} Dissertation module.</p> <p>Work Based Learning is assessed by analytical and reflective reports. An analytical report of fieldwork is included in the project management module. Health and Safety awareness is assessed by presentation and report.</p>

Part 3: Learning Outcomes of the Programme	
D Transferable Skills and other attributes	
<p>By the end of the programme, the student should be able:</p> <ol style="list-style-type: none"> 1. To integrate information from a range of sources effectively and interpret, analyse and communicate findings. 2. To demonstrate effective written, visual and oral presentation skills. 3. To demonstrate expertise in the application of IT in the context of the construction industry. 4. To communicate information and ideas clearly, imaginatively and succinctly. 5. To utilise and communicate information in quantitative terms and recognise the limits of error inherent in this approach. 6. To work independently, or as part of a cognate or multi-discipline team; in a range of contexts and with respect and understanding for the perspectives of others with an awareness of equal opportunity issues. 7. To identify and apply strategies to manage people and lead the construction process. 8. To use management, inter-personal and negotiation skills to deal with tensions and conflict. 	<p>Teaching/learning methods and strategies:</p> <p>IT applications are embedded in the modules where appropriate through the programme. IT teaching takes place in labs with dedicated software applications many of which have been specifically written for the construction industry to support estimating, visualisation, planning and project management.</p> <p>People management skills and team working are taught in interactive seminars using indicators, role play and simulation as well as discussion to interpret outcomes. All Interdisciplinary and most projects have an element of group research, team working, negotiation and oral presentation, some to an external audience.</p> <p>Sandwich and Part time students have additional experience in working in the wider organisational context.</p> <p>Assessment:</p> <p>Clarity of written presentation and ideas is assessed formally at all levels as are other transferable skills such as oral presentations and report writing. At the later stages, the assessment of these skills is embedded in assessment of other learning outcomes and becomes steadily more rigorous at each level.</p> <p>Assessed oral presentations are used at all levels, particularly in the Collaborative Practice and Workbased Research Project, Project Management and Health and Safety Risk Management modules.</p>


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Part 4: Programme Structure: Full Time				
This structure diagram demonstrates the student journey from Entry through to Graduation for a typical full time student or Sandwich Route including: level and credit requirements, interim award requirements, module diet, including compulsory and optional modules				
ENTRY 	Year 1	Compulsory Modules UBLMPC-30-1 Law, Economics and Management UBLMSS-30-1 Building Science UBLMYS-30-1 Construction Technology and Services UBLLWV-30-1 Design Process	Optional Modules	Interim Awards CertHE Construction Project Management Other requirements 120 credits with at least 100 at level 1 or above
	Year 2	Compulsory Modules UBLMYB-30-2 Construction Technology and Building Services UBLLY8-15-2 Site Management UBGLWX-30-2 Project Management and Health and Safety Risk Management UBLMRT-30-2 Procurement and Contract Practice UBMLGJ-15-2 Professional Practice for Built Environment Professionals	Optional Modules	Interim Awards DipHE Construction Project Management Other requirements 240 credits with at least 100 at level 2 and a further 120 at level 1 or above
Full time students on the Sandwich Route take: UBLMG4-15-3 Workbased Research Project and are not required to study the module UBLMNE-15-3 Collaborative Practice module in their final year.				

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Year 3	Compulsory Modules	Optional Modules	Interim Awards
	UBLMFQ-30-3 Technological Innovation and Life Cycles		BSc Construction Project Management
	UBLLXF-30-3 Strategic and Operational Management		Other requirements
	UBLMNE-15-3 Collaborative Practice		300 credits with at 60 credits at level 3, a further 100 credits at level 2 or above and a further 120 at level 1 or above
	UBLMKT-15-3 HR and Financial Management		
	UBLLYV-30-3 Dissertation A		

GRADUATION

Part 4: Programme Structure : Part Time			
<p>This structure diagram demonstrates the student journey from Entry through to Graduation for a typical part time student, including: level and credit requirements, interim award requirements, module diet, including compulsory and optional modules</p>			
ENTRY 	Year 1.1	Compulsory Modules UBLMSS-30-1 Building Science UBLMYS-30-1 Construction Technology and Services	Optional Modules
	Year 1.2	Compulsory Modules UBLMPC-30-1 Law, Economics and Management UBLLWV-30-1 Design Process	Optional Modules

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Year 2.1	<p>Compulsory Modules</p> <p>UBLMYB-30-2 Construction Technology and Building Services</p> <p>UBGLWX-30-2 Project Management and Health and Safety Risk Management</p> <p>UBLLY8-15-2 Site Management</p> <p>UBLMQT-15-2 Procedure and Practice (WBL)</p>	Optional Modules	
Year 2.2	<p>Compulsory Modules</p> <p>UBLMRT-30-2 Procurement and Contract Practice</p> <p>UBLMG4-15-3 Workbased Research project</p> <p>UBLMKT-15-3 HR and Financial Management</p>	Optional Modules	<p>Interim Awards</p> <p>DipHE Construction Project Management</p> <p>Other requirements</p> <p>240 credits with at least 100 at level 2 and a further 120 at level 1 or above</p>
Year 3	<p>Compulsory Modules</p> <p>UBLMFQ-30-3 Technological Innovation and Life Cycles</p> <p>UBLLXF-30-3 Strategic and Operational Management</p> <p>UBLLYV-30-3 Dissertation A</p>	Optional Modules	<p>Interim Awards</p> <p>BSc Construction Project Management</p> <p>Other requirements</p> <p>300 credits with at 60 credits at level 3, a further 100 credits at level 2 or above and a further 120 at level 1 or above</p>

GRADUATION

Part 5: Entry Requirements

The University's Standard Entry Requirements for admission (and IELTS for international students) apply with the following additions/exceptions:

Students must have achieved a grade C or above in Maths, Science and English GCSEs. An A2 or AS qualification in either Maths or a Physical Science is desirable although not essential.

Part 5: Entry Requirements

Students with a relevant HNC/HND or equivalent qualification may have their credit recognised against the level 1 modules and may enter into FT year 2 or PT year 2.1.

Exceptional students with a suitable HND and average merits in all modules may have their credits recognised against relevant level 1 and level 2 modules and may enter the programme into FT year 2 or PT year 2.2.

Part 6: Assessment

A: Approved to University Regulations and Procedures

Part 7: Student Learning

Teaching, learning and assessment strategies to enable learning outcomes to be achieved and demonstrated

At UWE, Bristol there is a policy for a minimum average requirement of 12 hours/week contact time over the course of the full undergraduate programme. This contact time encompasses a range of face to face activities as described below. In addition a range of other learning activities will be embedded within the programme which, together with the contact time, will enable learning outcomes to be achieved and demonstrated.

On the BSc(Hons) Construction Project Management programme teaching is a mix of *scheduled, independent and placement learning*.

Scheduled learning includes lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; external visits; work based learning. Scheduled sessions may vary slightly depending on the module choices made.

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion.

Placement learning: The part time programme also provides for recognition of practice experience through work based learning.

Delivery at Ho Chi Minh City University of Transport (UT-HCMC)

Student attendance and contact with tutors at Ho Chi Minh City University of Transport will reflect the teaching delivery and student study patterns at UWE with student support provided by tutors locally together with web based learning materials prepared by UWE.

Pattern of delivery

Courses will be delivered by a combination of methods, including some, or all, of the following: formal lectures, tutorials, workshops, case-study analyses, interactive online exercises, simulations, discussion groups and multimedia presentations. This will be supported by online access to UWE learning resources materials for use by teaching staff including lecture notes, reading lists and references for further reading, tutorial outlines, coursework assessment tasks and exam papers, etc.

Teaching Accommodation

Teaching and learning resources will be at the University of Transport main campus, which

Part 7: Student Learning

is 18,000 m² located at No 2 D3 Street Van Thanh Bac Ward 25 Binh Thanh District of Ho Chi Minh City. The campus consists of 6 buildings with 60 classrooms, 20 lecture halls, 40 specialized computer or technology labs, and a library and a main administration building. The administration building houses the management departments, faculties, and divisions. In addition, students will be permitted to use the UT-HCMC main campus library and computer labs and may be allocated dormitory places at campus 2.

Library:

UT-HCMC had two further library facilities on the main campus that they identify would be available to support students. First, a small library of dedicated texts used by the existing BTec HND students (300 titles) and second, the campus's main library. The main campus library holds 25,000 titles with a mixture of English and Vietnamese language texts. The main campus library also accommodated several reading and meeting and group work rooms to facilitate student study. All students will be supplied with a set of original text books for their required reading as prescribed in each module.. This arrangement is part of the package costs, included in the tuition fees. In addition, students will gain access to the UWE's online library as part of their registration entitlement.

IT Facilities:

The UT-HCMC campus facilities give students quick reliable wi fi access, access to desk top computers if required and the support of specialist subject librarians. The computer labs in the UT-HCMC main campus are furnished with modern facilities of a comparable standard to UK labs with around 400 computers using Microsoft Windows XP and were served by a high speed communication network and information technology with ADSL was being provided.

The UT-HCMC main campus network servers are locally based and provide fast software performance. Students are permitted to use email internet access freely through both computer labs and via wireless network. Students were permitted to use the UT-HCMC main campus labs when they were not being used for teaching during the campus opening hours 07:30-17:00. IT training and support for students using labs is provided by lab technicians.

Delivery at Auston Institute of Management (AIT)

Student attendance and contact with tutors at Auston Institute of Management will reflect the teaching delivery and student study patterns at UWE with student support provided by tutors locally together with web based learning materials prepared by UWE.

Pattern of delivery

Courses will be delivered by a combination of methods, including some, or all, of the following: formal lectures, tutorials, workshops, case-study analyses, interactive online exercises, simulations, discussion groups and multimedia presentations. This will be supported by online access to UWE learning resources materials for use by teaching staff including lecture notes, reading lists and references for further reading, tutorial outlines, coursework assessment tasks and exam papers, etc.

Teaching Accommodation

In addition to seven teaching rooms AIT provides a study area for students with printing and binding facilities and access to past projects and dissertations, online journals and required reference and core texts for courses.

Library:

In addition to access to UWE's online library as part of their registration entitlement,

Part 7: Student Learning

students have access to the National Library of Singapore approximately 10 minutes from the campus . Auston also provides reference texts and required texts as listed in the module specifications as part of their study package.

IT Facilities:

Auston provides a dedicated computer laboratory for the use of students and the entire campus is wifi-accessible to students.

Description of Distinctive Features and Support

1. Professional recognition

This programme is accredited by the Chartered Institute of Building (CIOB) which provides exemption for all of the written examinations of the CIOB. The CIOB is the principle institution for professionals entering the construction management profession.

2. Optional placement year

Students are encouraged to take the sandwich option which gives a year out in approved placement and can also contribute to the 3 years of industry experience which is required before applying for professional membership of the CIOB.

3. Modes of Study

The programme may be studied over three years full time, four years with a practice placement (Sandwich), or five years day release from relevant employment (part time). Students may elect to transfer between modes of study.

4. Skills Development

The programme has been approved by the CIOB and meets the requirements of their 'Education Framework for Undergraduate Programmes'

5. Inter professional ethos

There is an inter-professional core theme which runs through the course and promotes the understanding of issues between different built environment professionals. It uses group work and interdisciplinary themes to encourage more productive project relationships.

6. Work Based Learning

There is an opportunity for part time students in relevant employment to take 30 credits of work based learning reflecting on their learning at work.

Part 8: Reference Points and Benchmarks

1. The programme draws on the QAA benchmark statements in Construction, Property and Surveying as shown in the Learning Outcomes above.
2. Faculty and University policies on teaching, learning and assessment including a strong emphasis on formative work, skills development and innovative approaches to teaching and learning.
3. The programme is underpinned by staff consultancy, professional practice and research.
4. The course team have excellent links with local employers who advise the course team on the content and structure of the programme through the Construction Consortium that meets three times a year.

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of individual modules can be found in module specifications, available on the University's website.

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First CAP Approval Date	19/11/2013			
Revision CAP Approval Date <i>Update this row each time a change goes to CAP</i>		Version	1	
			2	
			3	
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			4.1	
			4.2	
			4.3	
	16 Jan 2018		5	Link to RIA (ID 4609)
	Next Periodic Curriculum Review due date			
Date of last Periodic Curriculum Review				