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Course:	Pearson BTEC Level 4 Higher	Unit/module:	1: Construction Design Project	Year:	2024-2025	
	Nationals in Construction and					
	the Built Environment					
Tutor:	Adewale Abimbola	Time:	32 Weeks, 1.75 hours per week			

Week No/Date	Date	Syllabus Ref	Topic	Methods of Delivery	Resources	ESW Opportunities (How will you develop Literacy, Numeracy and ILT?)	Assessment/ Student Activity	Remarks (Please note opportunities for Equality and Diversity ESDGC, Wellbeing, Curriculum Cymraeg, Enterprise, etc. and any Health and Safety issues)
1	WC 02/09/2024	L01	Topic: Introduction to unit 1 & Project Planning in Construction Sample activities: • Presentation and discussion of the unit brief, Pearson-set theme and topics for student selection. • Seminar and discussion of unit Learning Outcomes and Assessment Criteria.	T D GW CE	IWB C Handout DP	PS IT WWO	Q&A Discussion Assignment Ref	Development of research skills Incorporate sustainable design principles from the outset Develops an understanding of choices and decisions Development of academic writing skill.

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB - Interactive Whiteboard, WB - Whiteboard, C - Computer, DP - Data Projector, F - Flipchart, TV/Video, etc.

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2	WC 09/09/2024	L01	 Tutor presentation of report formats, and standards. Students should be able to develop a comprehensive project plan for a construction project. Issue Assignment 1. Discussion of submission requirements for the unit. Topic: Artificial Intelligence and Emerging Technologies in Construction Presentation on artificial intelligence and emerging technologies in construction Sample activities: Students to: Complete Chapter One of the report: introduction, aim and objectives, significance of the project, and outline of the report. Explore the current applications of Al in construction processes 	T D GW CE	IWB C Handout DP	PS IT WWO	Q&A Discussion Group Work	Explore Al applications for improved project efficiency Consider how Al can enhance workplace safety
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Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

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3	WC 16/09/2024	LO1	Topic: Design Process Stages in Construction Sample activities: Presentation on design process stages in construction Sample activities: • Identify and describe the key stages of the design process • Analyse the activities and deliverables associated with each design stage • Evaluate the importance of stakeholder input throughout the design process. • Each student describes the stages and activities of a construction design process.	T D GW CE WS PowerPoin t	IWB C Handout DP	IT WWO PS	Q&A Discussion Group Work	Engage diverse stakeholders at each stage Assess environmental impact at every design stage Consider occupant comfort throughout the design process Identify opportunities for innovation in construction methods
4	WC 23/09/2024	L01	Topic: Information Requirements in Project Stages Sample activities: • Identify the types of information required at different project stages	T D WS CE PowerPoin t	IWB C Handout	C IT WWO PS	Q&A Discussion	Ensure information is accessible to all team members Include sustainability metrics in project information

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

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		 Analyse the flow of information between project stages Outline the relationships between drawings, schedules and specifications. 					Incorporate occupant feedback in information gathering
5 WC 30/09/2024	Ea Io	opic: Relationships between rawings, Schedules, and pecifications ample activities: • Define the purpose and content of drawings, schedules, and specifications • Analyse the interdependencies between these documents • Evaluate the importance of coordination among drawings, schedules, and specifications ach student to complete their regbook for the month of eptember.	T D WS CE PowerPoin t	IWB C Handout	C IT WWO PS	Q&A Discussion Group Work	Ensure safety requirements are consistently reflected Explore digital tools for improved document coordination Reflect on work-life balance in logbook entries Note sustainable practices observed during the month

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

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Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

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6	WC 07/10/2024	L01	Topic: Understanding and Developing Project Briefs Sample activities: Presentation on project briefs. Sample activities: Define the concept and purpose of a project brief Identify key components of an effective project brief Develop a comprehensive brief for a building project proposal	T D CE	IWB C Handout	C IT WWO PS	Q&A Discussion Group Work	Ensure brief addresses needs of diverse users Include sustainability goals in project brief Incorporate health and wellbeing objectives in brief
7	WC 14/10/2024	L02	Topic: Building Information Modelling (BIM) in Construction. Sample activities: Presentation on building information modelling (BIM) in construction. Sample activities: Students to: • Assess the relationship between design and project stages and the information sharing requirements in each.	T D WS CE PowerPoin t	IWB C Handout	C IT WWO PS	Q&A Discussion Group Work	Ensure BIM tools are accessible to all team members Use BIM for environmental performance simulations Explore advanced BIM features for improved efficiency .

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB - Interactive Whiteboard, WB - Whiteboard, C - Computer, DP - Data Projector, F - Flipchart, TV/Video, etc.

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			 Analyse the importance 					
			of clash detection and					
			information					
			coordination					
8	WC	L02	Topic: Design and Project	Т	IWB	С	Q&A	Ensure safety information is shared at all
	21/10/2024		Stage Information Sharing	D	С	IT	Discussion	stages
			Student to critically	WS	Handout	WWO	Group Work	510,60
			evaluate the	CE		PS		Consider how information sharing
			relationship between	PowerPoin				impacts team stress levels
			design and project	t				ļ
			stages, highlighting the	,				Implement bilingual information sharing
			processes and					protocols
			procedures to ensure					i e
			information					
			I					
			coordination					
			throughout.					
			Students may meet with					
			tutor, individually or in					
			groups, to discuss their					
			projects and receive					
			advice in support of					
			developing final					
			outcomes, and report.					
			Each student to complete their					
			logbook for the month of					
			October.					

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

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Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

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9-11	WC 04/11/2024 - WC 18/11/2024	LO1&2	Topic: Assignment 1 – Independent study & support sessions Students may meet with tutor, individually or in groups, to discuss their projects and receive advice in support of developing final outcomes, and report. Submit Assignment 1. Submit Project Plan.	T CE WS Assignmen t Ref	C WS	IOLP PS	Assignment Ref Discussion	Development of research skill. Develops an understanding of choices and decisions Development of academic writing skills
12-20	WC 25/11/2024 - WC 03/02/2025	LO3	Topic: Computer-aided Design (CAD) Presentations on the use of Revit software to produce building. Sample activities: Students to navigate the user interface of the Revit software. use important navigation tools such as Zoom, Pan, View, Snap, produce title block sheet, produce the ground floor, add a new level, create the ground	T D GW CE WS PowerPoint	IWB C HandoutIT	C IT WWO PS	Quiz Q&A Discussion Group Work	Work collaboratively in diverse groups Development of drawing and design skills. Develop IT skill. Develops an understanding of choices and decisions

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB - Interactive Whiteboard, WB - Whiteboard, C - Computer, DP - Data Projector, F - Flipchart, TV/Video, etc.

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			and upper floor slabs of building, create railings,					
			create walls, create the ceiling and roof, create					
			the site, produce a					
			rendered view, produce					
			section drawings,					
			produce schedules of					
			building elements, save					
			and export drawings as					
			pdf files.					
			Each student to complete their					
			logbook for the month of					
			November ON WC 25/11/2024.					
			Each student to complete their					
			logbook for the month of					
			December ON WC 16/12/2024.					
			E. L. J.					
			Each student to complete their					
			logbook for the month of January on WC 27/01/2025.					
			January on we 27/01/2025.					
			Assignment 1 feedback					
21-22	WC	L0 3	Topic: Project Specification &	Т	IWB	С	Q&A	Prioritise sustainable materials in
	10/02/2025		Construction Health and	D	С	IT	Discussion	specifications
	&		Safety Phase Plan for the	WS	Handout	WWO		'
	17/02/2025		Project.	CE		PS		

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB - Interactive Whiteboard, WB - Whiteboard, C - Computer, DP - Data Projector, F - Flipchart, TV/Video, etc.

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			Presentation on project specification. Tutor to provide a construction health and safety phase plan template for the project. Sample activities: Students to: Define the purpose and components of construction specifications Analyse the role of specifications in project quality control Develop project-specific specifications using Revit software Produce a construction health and safety phase plan for the project. Each student to complete their logbook for the month of February.	PowerPoin t				Ensure specifications meet all safety standards Explore innovative materials or methods in specifications Consider the impact of health and safety regulations on worker wellbeing.
23	WC 03/03/2025	LO 3	Topic: Assignment 2 – Independent study & support sessions Students may meet with tutor, individually or in groups, to discuss their projects and	T CE WS Assignmen t Ref	C WS	IOLP PS	Assignment Ref Discussion	Development of research and IT skills. Develops an understanding of choices and decisions

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB - Interactive Whiteboard, WB - Whiteboard, C - Computer, DP - Data Projector, F - Flipchart, TV/Video, etc.

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			receive advice in support of developing final outcomes, and report. Submit Assignment 2. Submit Logbook.					Development of academic writing skills
24	WC 10/03/2025	LO 4	Topic: Stakeholder Coordination and Information Sharing in Construction Sample activities: Students to: Identify key stakeholders and their roles in construction projects Analyse methods for effective information sharing between stakeholders Evaluate strategies for improving coordination among different project roles	T D D CE	IWB C Handout	C IT WWO PS	Q&A Discussion Group Work	Ensure information is accessible to all stakeholders Consider stakeholder preferences in communication methods Provide Welsh language options for stakeholder communications
25	WC 17/03/2025	LO 4	Topic: Contractual Relationships and Information Flow in Construction Sample activities: Students to	T D GW CE WS	IWB C HandoutlT	C IT WWO PS	Quiz Q&A Discussion	Explore innovative contract types for improved collaboration Include sustainability requirements in contracts

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB - Interactive Whiteboard, WB - Whiteboard, C - Computer, DP - Data Projector, F - Flipchart, TV/Video, etc.

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Identify different forms	PowerPoin	Ensure contracts clearly define safety
of contractual	t	responsibilities
relationships in		
construction projects		
Explain coordination		
and information sharing		
between different roles		
and stakeholders in a		
construction project		
Analyse the ways in		
which different forms of		
contractual		
relationships between		
stakeholders influence		
flow of information in a		
construction project.		
Evaluate a package of		
construction		
information, in relation		
to their coordination		
and accuracy		
Students may meet with tutor,		
individually or in groups, to		
discuss their projects and		
receive advice in support of		
developing final outcomes, and		
report.		
Assignment 2 feedback		
Assignment 2 feedback		

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB - Interactive Whiteboard, WB - Whiteboard, C - Computer, DP - Data Projector, F - Flipchart, TV/Video, etc.

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26 - 27	WC 24/03/2025 & WC 31/03/2025	LO 4	Topic: Performance Review in Construction Projects Presentation on the requirements of performance review in construction projects Sample activities: Students to:	T D GW CE WS PowerPoin t	IWB C HandoutIT	C IT WWO PS	Quiz Q&A Discussion Group Work	Reflect on personal and team wellbeing in review Assess contribution to project sustainability goals Evaluate efforts to promote inclusivity in project work
28	WC 07/04/2025	LO 4	Topic: Presenting reports - Sample activities: - Discussion of effective presentation techniques Support/Progress Session for presentation	T D GW CE WS PowerPoin t	IWB C HandoutlT	C IT WWO PS	Quiz Q&A Discussion Group Work	Provide alternative text for images and graphics to make the presentation accessible for visually impaired individuals. Incorporate sustainability themes into your presentation design, such as using

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB – Interactive Whiteboard, WB – Whiteboard, C – Computer, DP – Data Projector, F – Flipchart, TV/Video, etc.

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			Students may meet with tutor, individually or in groups, to discuss their projects and receive advice in support of developing final outcomes, and presentation.					digital handouts instead of printed materials. Design slides with appropriate font sizes and colour contrasts to reduce eye strain for the audience Utilise PowerPoint's multimedia features to create an engaging and professional presentation.
29	WC 28/04/2025	LO 4	Topic: Assignment 3 – Independent study & support sessions Students may meet with tutor, individually or in groups, to discuss their projects and receive advice in support of developing final outcomes, and presentation. Submit Assignment 3 – PPT Presentation. Submit Performance Review document.	T CE WS Assignmen t Ref	C WS	IOLP PS	Assignment Ref Discussion	Development of research skill. Develops an understanding of choices and decisions Development of academic writing skills
30 - 31	WC 05/05/2025 & WC 12/05/2025	LO 4	Topic: Provide assignment 3 feedback.	T D	C IWB	C IT WWO PS	Assignment Ref Discussion	Develops an understanding of choices and decisions

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

Essential & Key Skills Opportunities: C – Communications, AN – Application of Number, IT – Information Technology, IOLP – Improving Own Learning & Performance, WWO – Working With Others, PS – Problem Solving, ESDGC (Education for Sustainable Development and Global Citizenship).

Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB - Interactive Whiteboard, WB - Whiteboard, C - Computer, DP - Data Projector, F - Flipchart, TV/Video, etc.

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			Tutor to begin to provide feedback to assignment 3 submissions.					Treat all students' submission equally and fairly.
32	WC 19/05/2025	LO1-4	Topic: Assignment Resubmissions- Independent study & support sessions Students, working individually, begin to identify resources required for their resubmission. Students may meet with their tutor, individually or in groups, to discuss their feedback on previous submissions and receive advice in support of developing assignment reports. Resubmit Assignments	T D GW CE WS PowerPoin t	C IWB	C IT WWO PS	Assignment Ref Discussion	Development of critical thinking skills Development of research and literacy skills. Develops an understanding of choices and decisions

Methods of Delivery: T - Talk, D - Discussion, GW - Group Work, RL - Role Play, CE - Class Exercise, WS - Worksheet, etc

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Assessment: Assignment Ref, Q&A, Discussion, Group Work, Quiz, etc

Resources: IWB - Interactive Whiteboard, WB - Whiteboard, C - Computer, DP - Data Projector, F - Flipchart, TV/Video, etc.