INTERNATIONAL QUALIFICATIONS

AND ASSESSMENT CENTRE (IQAC)

«Approved»

2025 y. «___» _____

Programme	**Level 4 Extended Diploma in Architecture**		
Unit Number/ Unit Title	**Unit 5 Advanced Architectural Design Studio (Project Residential)**		
Cohort Code:	L04AAD-U5		
Unit Level	4 level		
Total Credits/Hours	Total qualification time 200/ Total Guided learning hours 90/ Self-guided learning hours 110		
Credits	20 CATS/ 10 ECTS		
Lecturer			
Start Date		**End Date**	

Unit Aims	Building on previous design experience, this advanced studio focuses on residential architecture. Learners will engage with real-world housing challenges, sustainability, and user-focused living environments. The project culminates in a fully developed architectural proposal demonstrating technical integration, contextual response, and refined presentation.
Differentiation Strategies *(e.g. planned activities or support for individual learners according to their needs)*	Various approaches to addressing the various identified students' needs will be adopted throughout the lesson. Such will include: 1. Progressive tasks 2. Digital resources 3. Verbal support 4. Variable outcomes 5. Collaborative learning 6. Ongoing assessment 7. Flexible-pace learning

Equality & Diversity	Variety of teaching techniques will be employed to ensure that the needs of each individual learner are met.
Safeguarding & Prevent	Safeguarding policies and the Prevent duty are strictly observed to ensure the safety, well-being, and inclusivity of all students and staff.
Health & Safety	SIRM H&S policies will be maintained.
Learning Resources	**Teaching and Learning Materials** • Weston, R. (2011). 100 Ideas that Changed Architecture. Laurence King. • Neufert, E. (2012). Architects' Data. Wiley-Blackwell. • Vale, B., & Vale, R. (2000). The New Autonomous House. Thames & Hudson. • Krier, L. (2011). The Architecture of Community. Island Press. • De Chiara, J., Panero, J., & Zelnik, M. (2001). Time-Saver Standards for Housing and Residential Development. McGraw-Hill.

Learning Outcome (The learner will:)	Assessment Criteria (The learner can:)
LO1. Develop a comprehensive architectural design proposal for a residential project.	1. Studio Project Submission: 1.1 Analyse the site and context to inform residential design. 1.2 Produce a coherent proposal integrating form, function, and sustainability.
LO2. Demonstrate technical understanding in design development.	2. Practical Lab Work: 2.1 Include structural systems, materials, and environmental strategies in the design. 2.2 Produce technical drawings and detailing to communicate construction intent.
LO3. Communicate the architectural vision using advanced presentation techniques.	3. Portfolio Submission: 3.1 Use digital rendering, physical models, and visual storytelling methods. 3.2 Present design work in a professional format suitable for critique or client presentation.
LO4. Reflect on the design process and the challenges of residential architecture.	4. Reflective Report: 4.1 Critically review design decisions, technical resolutions, and project outcomes. 4.2 Identify areas for future improvement and learning.

Week	Topic	Learning Outcomes for Each Topic	Which assessment criteria does the session relate to?	Day/month/ year/ signature
1	Introduction to Advanced Studio and Residential Typologies	Review case studies and housing precedents to understand current trends and typologies.	LO1	
2	Defining the Brief: User Needs and Residential Challenges	Analyse real-life client profiles and develop a tailored residential brief.	LO1	
3	Site Visit and Contextual Mapping	Record physical, cultural, and environmental site data to inform design direction.	LO1	
4	Site Analysis: Topography, Climate, and Access	Produce detailed site analysis diagrams focusing on buildability and orientation.	LO1, LO2	
5	Client Scenario Development and User Journey Mapping	Explore family dynamics and design for multi-generational or inclusive living.	LO1	

6	Concept Development: Massing and Orientation Strategies	Create massing models and initial spatial studies responding to the site and sun path.	LO1	
7	Sustainability Integration Workshop: Passive Strategies	Test daylighting, ventilation, and thermal performance in early concepts.	LO2	
8	Functional Zoning and Spatial Programming	Define public/private zones and develop spatial hierarchy.	LO1	
9	Structural Strategy and Grid System Exploration	Investigate structural layouts (e.g., load-bearing walls vs. frame systems).	LO2	
10	Spatial Sequencing and Vertical Circulation	Design circulation pathways and transitions between living spaces.	LO1	
11	Mid-Concept Pin-Up and Verbal Critique	Present concept models and diagrams for feedback.	LO1, LO3	
12	Design Iteration Based on Crit Feedback	Redesign and refine spatial logic with improved clarity and feedback response.	LO1, LO4	
13	Floor Plan Development and Room Layouts	Draft schematic floor plans focusing on function and spatial quality.	LO1	

14	Materiality Exploration and Façade Studies	Choose appropriate materials and test cladding concepts.	LO2	
15	Wall Sections and Envelope Detailing	Produce detailed drawings showing thermal and structural performance.	LO2	
16	Midterm	**Midterm assessment** covering all learning outcomes (theory and practical elements)	LO1, LO2, LO3	
17	Sustainability Focus: Water, Waste, and Energy Systems	Integrate green technologies and sustainability metrics in design.	LO2	
18	Digital 3D Modelling and Visualization (SketchUp/Revit)	Create accurate digital models for visualisation and design testing.	LO3	
19	Perspective and Axonometric Diagrams for Storytelling	Produce visual narratives to communicate spatial experience.	LO3	
20	Design Review and Peer Feedback Workshop	Participate in peer review and critique reflective journals.	LO4	
21	Interior Architecture and Atmosphere Studies	Design interior layouts considering daylight, acoustics, and user comfort.	LO1, LO2	

22	Landscape and Outdoor Space Integration	Plan garden, terrace, and communal outdoor elements for holistic design.	LO1	
23	Finalising Plans, Sections, and Elevations	Ensure spatial clarity and graphic consistency across all architectural drawings.	LO1	
24	Detailed Model-Making (1:100 / 1:50 scale)	Construct physical models showing materials, space, and site context.	LO3	
25	Graphic Presentation Board Layout and Portfolio Structure	Design coherent boards and digital portfolios with a strong visual narrative.	LO3	
26	Verbal Presentation Skills and Mock Crits	Practice professional delivery for formal reviews.	LO3	
27	Studio Tutorials and Design Refinement	Final design revisions based on tutor input.	LO1 – LO4	
28	Final Drawings and Model Completion	Produce final architectural set: plans, sections, elevations, renders.	LO3	
29	Final Presentation to External Review Panel	Deliver complete presentation with drawings, models, and verbal defence.	LO1 – LO4	
30	Reflection and Self-Evaluation of Design Journey	Write a critical reflection on the process, decisions, and project impact.	LO4	
31	Final Exam: Submission of Final Portfolio and Reflective Report	Submit a complete digital/physical portfolio with written commentary.	LO3, LO4	