INTERNATIONAL QUALIFICATIONS

AND ASSESSMENT CENTRE (IQAC)

Approved:

2025 y. «16» Eylül

Programme	**Foundation Year Diploma in Architecture**		
Unit Number/ Unit Title	**Unit 2 Mathematics for architecture**		
Cohort Code:	L03MFA-U2		
Unit Level	3		
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	To develop students' mathematical skills and understanding essential for architectural studies. This module focuses on geometry, trigonometry, algebra, and basic calculus applications relevant to architectural design and construction.
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** • "Mathematics for Architects and Designers" by Frank Swetz. • "Architectural Geometry" by Helmut Pottmann, Andreas Asperl, Michael Hofer, and Axel Kilian. • "Engineering Mathematics" by K.A. Stroud and Dexter J. Booth. • "Geometry of Design: Studies in Proportion and Composition" by Kimberly Elam