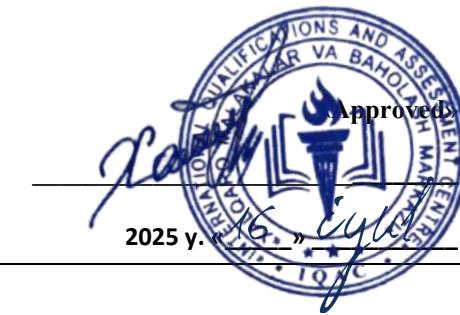




INTERNATIONAL QUALIFICATIONS
AND ASSESSMENT CENTRE (IQAC)



| 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 <i>(e.g. planned activities or support for individual learners according to their needs)</i> | Various approaches to addressing the various identified students' needs will be adopted throughout the lesson. Such will include: <ol style="list-style-type: none">1. Progressive tasks2. Digital resources3. Verbal support4. Variable outcomes5. Collaborative learning6. Ongoing assessment7. 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. |
| | Teaching and Learning Materials |
| Learning Resources | <ul style="list-style-type: none"> • "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 |