

# HIGHER NITEC IN ARCHITECTURAL TECHNOLOGY

## Core Modules

### Architectural Drawing

On completion of the module, students should be able to apply concepts of spatial composition and knowledge of architectural drawing techniques and conventions to produce architectural sketches, perspectives and architectural building drawings and presentation boards for further design development.

### Architectural Modelling

On completion of the module, students should be able to produce a consolidated architectural presentation package complete with project brief, presentation drawings, 3D rendering and animations.

### Architectural Design Process

On completion of the module, students should be able to gather the necessary codes and regulations to be applied when preparing a set of building drawings for submission purposes using relevant computer software. Students should also be able to apply the knowledge of architectural schedules and detail elements to prepare a set of working drawings for construction purposes.

### Architectural Construction Technology

On completion of the module, students should be able to produce a set of submission drawings and perform Buildability Score calculations. They should also be able to produce complete sets of architectural tender and construction drawing packages incorporating all required drawings, details, technical specifications and documentation necessary for calling of tender and construction of buildings on site respectively.

### Architectural BIM Design

On completion of the module, students should be able to integrate building services and structural systems with the architectural design using BIM modelling. They should be able to perform multi-disciplinary coordination and clash detection through usage of BIM software.

### Green Mark and Universal Design

On completion of the module, students should be able to apply the principles and requirements of Green Mark to develop detail elements and features of sustainable building and produce a set of detail drawings. Students should also be able to apply the principles and requirements of Universal Design to develop design features for accessibility in built environment and produce a set of detail drawings.

### Industry Attachment

Students will undergo a 6-month industry attachment with architectural design and building and construction companies where they will apply and integrate the technical, social and methodological competencies in carrying out related industry projects.