

HIGHER NITEC IN ARCHITECTURAL TECHNOLOGY (2 YEARS)

CERTIFICATION

Credits required for certification:

Specialisation Modules	: 39
Internship Programme	: 8
LifeSkills Modules	: 9
Cross-Disciplinary Core Modules	: 6
Electives	: 6
<hr/> Total	<hr/> : 68

COURSE STRUCTURE

Module Title	Credits
SPECIALISATION MODULES	
Spatial Design Fundamentals	3
Spatial Drawings	3
Building Drawings	3
BIM Modelling	3
Architectural Project Proposal	3
Architectural Design Process	3
Architectural Submission Process	3
Architectural Tender Package	3
Architectural Construction Drawings	3
Architectural BIM Design	3
Architectural BIM Coordination	3
Green Mark	3
Universal Design	3
INTERNSHIP MODULE	
Internship Programme	8
ELECTIVES (GENERAL) AND LIFE SKILLS MODULES	
For details, click here	

Note: The offer of electives is subject to the training schedule of respective ITE Colleges. Students are advised to check with their Class Advisors on the availability of the elective modules they intend to pursue.

MODULE OBJECTIVES

Specialisation Modules

Spatial Design Fundamentals

On completion of the module, students should be able to apply fundamental spatial design principles, tools and processes to build spatial design skills.

Spatial Drawings

On completion of the module, students should be able to apply knowledge of architectural drawing techniques to produce architectural sketches and perspectives for further design development.

Building Drawing

On completion of the module, students should be able to apply the knowledge of orthographic drawing and architectural drawing conventions to prepare a set of building drawings using relevant computer software.

BIM Modelling

On completion of the module, students should be able to develop a 3D building model complete with architectural elements and finishes and produce 3D visualisations using relevant BIM software.

Architectural Project Proposal

On completion of the module, students should be able to produce a consolidated architectural project proposal complete with project brief, relevant drawings and 3D models.

Architectural Design Process

On completion of the module, students should be able to apply knowledge of necessary codes and regulations and produce building model to comply to Development Control (DC) submission requirements.

Architectural Submission Process

On completion of the module, students should be able to apply knowledge of necessary codes and regulations to produce a complete set of drawings for Building Plan (BP) submission and perform Buildable Design Score calculations.

Architectural Tender Package

On completion of the module, students should be able to produce complete set of architectural tender package incorporating all required drawings, details, specifications and documentation necessary for calling of tender.

Architectural Construction Drawings

On completion of the module, students should be able to apply knowledge of relevant construction technologies and produce a complete set of architectural construction drawings incorporating all details and technical specifications required for construction of buildings on site.

Architectural BIM Design

On completion of the module, students should be able to produce integrated BIM model incorporating building services and structural systems with architectural design using BIM software.

Architectural BIM Coordination

On completion of the module, students should be able to develop coordinated BIM model through performance of multi-disciplinary coordination, clash detection and clash resolution using of BIM platform.

Green Mark

On completion of the module, students should be able to apply the principles and requirements of Green Mark to develop details of elements and features of sustainable building design.

Universal Design

On completion of the module students should be able to apply the principles and requirements of Universal Design to develop design features for accessibility in built environment.

Internship Module

Internship Programme

Students will undergo a 6-month internship 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.

Electives (General) and Life Skills Modules

For details, click [here](#).