

Dublin School of Architecture

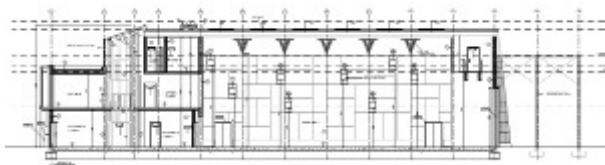


WHAT IS AN ARCHITECTURAL TECHNOLOGIST?

The Architectural Technologist is a technical designer, skilled in the application and integration of construction technologies in the building design process.

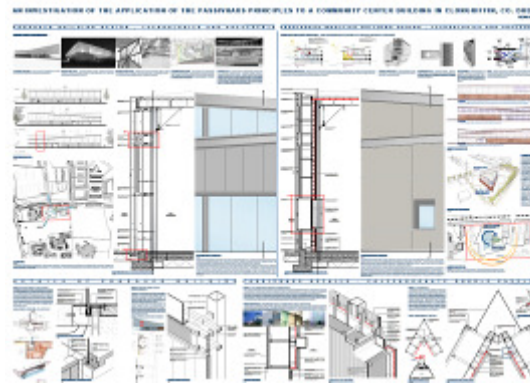
DIT architectural technologists are highly sought after in the Architectural Engineering and Construction (AEC) industry in Ireland and abroad. They have a reputation for technical design, with an ability to apply, coordinate and integrate building, construction and digital technologies in the building design and construction processes. Graduates have an ability to apply environmental and low energy performance design principles in the design of nearly Zero Energy (nZEB) Buildings.

Working in multidisciplinary and collaborative design teams, technologists have the skills to communicate with and coordinate the work of other building design professionals. With the rapid development of digital information technologies, DIT architectural technologists have emerged as leaders in the creation, integration and management of technical information through the medium of Building Information Modelling (BIM).



LEVEL 8 BSc (HONS) ARCHITECTURAL TECHNOLOGY:

The BSc (Hons) Architectural Technology programme is primarily studio based. Studio provides a structured setting in which the student is exposed to a variety of teaching and learning experiences. Project work is undertaken against the background of lectures, critiques, one to one tutorials, seminars, group work and construction skills classes.



Studio project work acts as a focus for the development of skills in three-dimensional problem solving. These skills include freehand drawing, hard line mechanical drawing, pencil overlay drawings and model making. Studio project work also allows the development of skills in Building Information Modelling (BIM) to produce 3D digital models and 2D working drawings.

The presentation of studio projects in crits encourages the development of the student's verbal communication skills. The studio format offers flexibility for students to attend project related site visits and field trips away from the college environment, thereby widening

their understanding of the context of their project work. These experiences are supplemented by industry and professional presentations, specialist structural engineering and mechanical & electrical engineering design workshops, and visits to building exhibitions.

While concentrating primarily on individual effort, project work also allows teamwork, both within the architectural technology programme, and in a multi-disciplinary way through employment of joint projects involving students of architecture, and occasionally involving students in related disciplines within other DIT schools. In studio, students have unrestricted access to a dedicated workspace and work alongside one another for long periods of time, both during timetabled contact hours and beyond. Studios are equipped with both manual drawing facilities and PCs, allowing students to carry out their project work using a variety of media and approaches.



The DIT Dublin School of Architecture provides IT software and equipment including printers, plotters and scanners, allowing students to produce all project work within the studio.

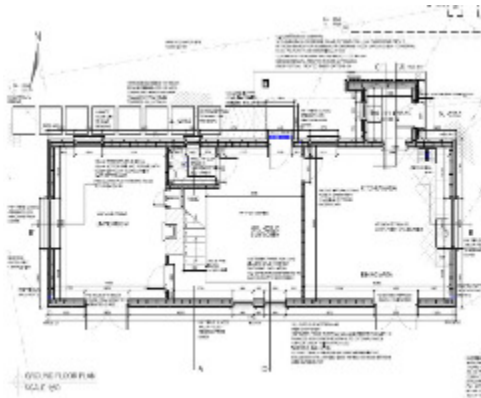
FIRST YEAR:

In first year students are introduced to the principles of building materials and technology and are encouraged to develop a capacity to identify and resolve architectural technology problems.

In **Semester 1** the student explores measurement, anthropometric study, material research and jointing.

Modules:

Technical Design Studio 1 (Part A)
Building Technology 1
Building Performance 1
Building Information Modelling 1



In **Semester 2** the student explores the technologies of a low energy domestic house using industry standard construction detailing and systems.

Modules:

Technical Design Studio 1 (Part B)
Building Technology 2
Building Performance 2
Building Information Modelling 2

SECOND YEAR:

In **Semester 3** students are introduced to the technologies of timber buildings and framed and clad steel and structures. They are encouraged to develop personal working procedures and problem-solving methodologies.

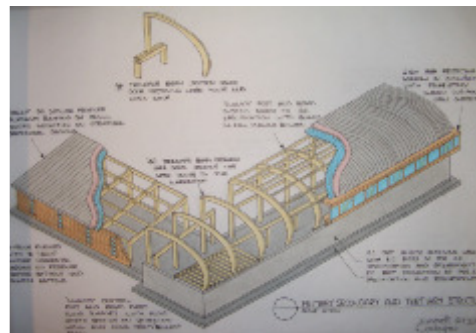
Modules:

Technical Design Studio 2 (Part A)
Building Technology 3
Building Performance 3
Building Information Modelling 3

In **Semester 4** students explore the technologies of concrete and steel structures using the methodologies developed in Semester 3.

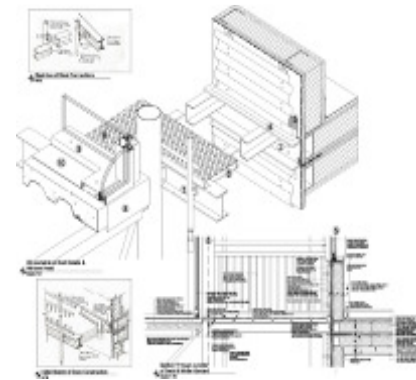
Modules:

Technical Design Studio 2 (Part B)
Building Technology 4
Environmental Design 4
Building Information Modelling 4



THIRD YEAR:

In **Semester 5** students are assigned to professional practice placement. A Placement Coordinator assigns students to practices based on student learning needs. Some students spend placement in large practices as part of team, while other may be assigned to smaller practices.



In **Semester 6** the student is required to develop a full technical design proposal for a multi-cell building. Students carry out technical research, site analysis, esquisse investigation and exploration based on engineered timber technologies.

Modules:

Technical Design Studio 3
Building Technology 5
Building Performance 5
Building Information Modelling

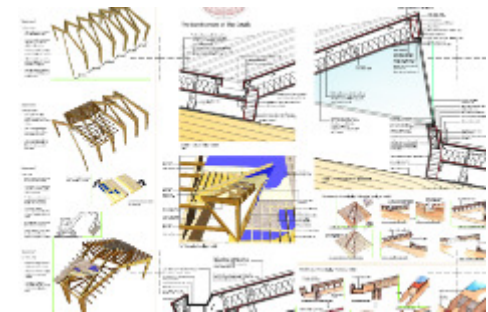
FOURTH YEAR:

In **Semester 7**, students are required to carry out a group study exploring renovation, retrofit and intervention into existing buildings. This entails researching, measuring, surveying and recording an existing building with recommendations for making a modern intervention. Students also begin preparation for their final year thesis through a collaborative research and design project.

Modules:

Technical Design Studio 4
Building Performance 6
Building Information Modelling 6
Professional Development 1

In **Semester 8**, students carry out their final year thesis based on a collaborative research and design project with architecture students, applying and developing their understanding of the principles of architectural technology developed in the various modules during the preceding seven semesters to their thesis project.



Modules:

Technical Design Studio 5: Thesis
Technical Design Dissertation
Professional Development 2

ADMISSION CRITERIA

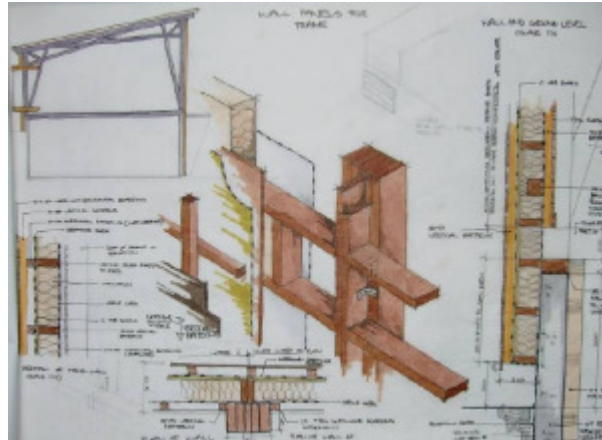
Leaving Certificate Applicants:

Applicants with a Leaving Certificate or equivalent qualification (other than non standard and mature applicants as outlined below) are admitted on the basis of Leaving Certificate points.

For standard Leaving Certificate applicants, the minimum entry level to the Level 8 BSc (Hons) Architectural Technology programme is a Leaving Certificate with six subjects, two with C at higher level, and including Mathematics and English or Irish, or an equivalent qualification. Mature students are not required to meet the normal minimum entry requirements.

Applicants are strongly encouraged to study Construction Studies, Technology, Engineering, Design & Communication Graphics or Art as Leaving Certificate subjects.

Intake to the first year of the programme is set at 50 students approximately. Leaving Certificate points for in 2015 were 335.



Non Standard Applicants

Non Standard applicants are candidates under the age of 23 who are undertaking or have completed another programme of study such as QQI Level 6, ideally but not necessarily related to architectural technology. Non Standard applicants should apply through the CAO, indicating on their application form that they are engaged in or have completed another programme of study.

Mature Applicants

Mature applicants are candidates over the age of 23 on 1 January of the proposed year of entry. Mature applicants should apply through the CAO, indicating their mature status on their application form. Mature applicants are not required to meet the normal minimum entry requirements.

Advanced Entry Transfer Procedures

From time to time applicants who possess a related third level qualification such as a UK Higher National Diploma (HND), or who have significant office experience may be admitted to the second year of the programme, subject to interview and availability of places. Applications for advanced entry to the programme are made directly to DIT before 31 March each year.

INTERVIEWS:

Non Standard And Mature Applicants

The application forms of all candidates identified as being Non Standard and Mature in the CAO process are assessed by a panel of School of Architecture lecturers. A short list is formed and a number of candidates are invited to attend an interview and present a portfolio of their work. Non Standard and Mature applicants who demonstrate exceptional ability in the interview will be offered a place on the programme in CAO Round 0, independent of Leaving Certificate points.

Interviews of Mature and Non Standard applicants will take place in April or May of each year. Numbers of applicants admitted in this way may vary from year to year and will depend on the number of candidates demonstrating exceptional ability through portfolio and at interview.

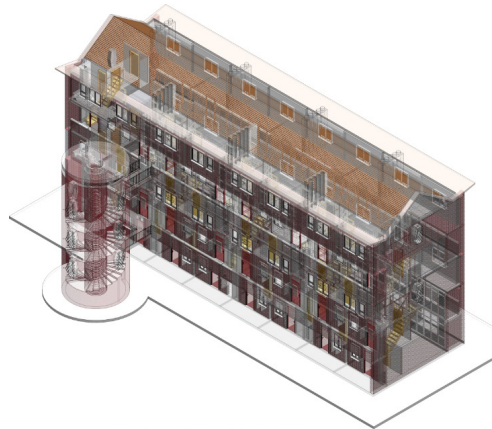
Mature and Non Standard applicants who are not invited to interview through the above process may still be admitted to the programme based on their Leaving Certificate performance or through the links scheme, but in competition with all other standard applicants



Progression: Architectural Technology

The DIT School of Architecture is a centre of excellence for the undergraduate, postgraduate and CPD education of the professional Architectural Technologist.

Arising from this mission, and to provide educational progression opportunities for its graduates, the School has validated a variety of programmes and modules which are open to graduates of the Level 8 BSc (Hons) Architectural Technology.

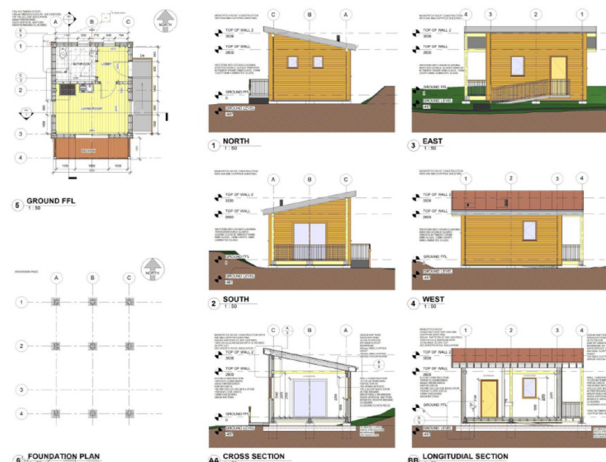
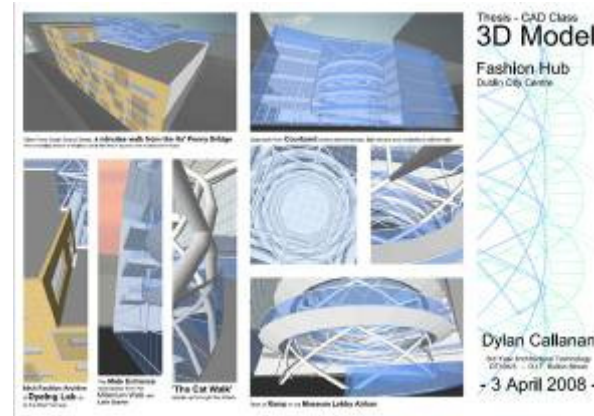


These include:

- MSc Applied BIM Modelling & Management
- MSc Energy Retrofit Technology
- CPD Diploma Thermal Bridge Assessment
- Postgraduate Certificate in Applied Architectural Technology

Progression: Architecture

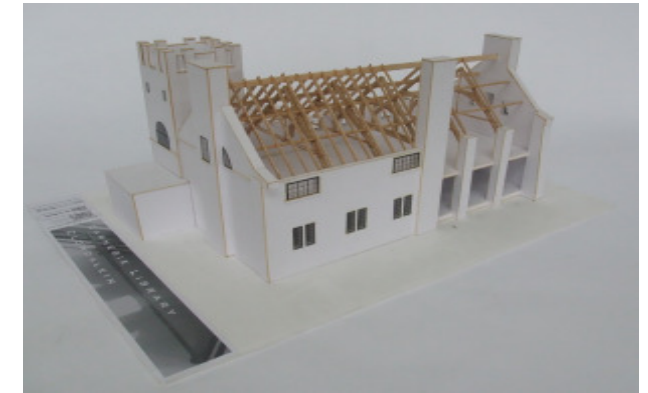
Some architectural technology graduates choose to study architecture. A growing number are admitted to the DIT 5-year degree programme in architecture subject to suitability test and interview.



Professional accreditation:

The DIT Level 8 BSc (Hons) Architectural Technology is accredited by the Royal Institute of the Architects of Ireland.

After two years accredited experience, graduates are eligible for Architectural Technologist membership of the RIAI. Subject to membership of the RIAI an experienced graduate may use the designations BSc (Hons) Architectural Technology, RIAI (Arch Tech)



Websites:

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