



Innovative engineering facilitates ultra modern campus

Project in brief

This project consists of a new city centre education facility for DIT and is constructed on the site of the former Jacobs biscuit factory. The development was undertaken in two separate phases.

Phase 1 extended to 10,000m² over six floors and includes accommodation for classrooms (flat and tiered), offices, Students Union, canteen, library, AV recording studio, and production facility. There are two large lecture theatres stacked as a feature over the open entrance concourse, with its double height glazed walls.

Phase 2 also extended over six floors, covers 12,700m² in area and in the main serves technology faculty uses. It contains a 5,000m² library, 3,000m² of restaurant and concourse, specialist computer laboratories, basement car park and Students Union extension. Four lecture theatres project in a dramatic feature through the building façades.

The main structure of the building consists of reinforced concrete elements but there are also structural steel elements at roof level and at glazed façades.

Phase 1 is supported on piled foundations consisting of driven pre-cast concrete piles, concrete pile caps and ground beams. Foundations for Phase 2 are concrete strip and pad footings.

Innovative solutions

The design of the stacked suspended lecture theatres over the curved entrance concourse provided significant structural challenges, given both the large loads and clear spans required.

An imaginative system of flat and raking beams was adopted from which the tiered floors of the lecture theatres were supported.



LeeMcCullough
Consulting Engineers

Project 2778 Education - New Build

Dublin Institute of Technology
Aungier Street

Client: Dublin Institute of Technology

Architects: Burke Kennedy Doyle

Value: €32m (2004)

LeeMcCullough team:

Frank Lee

Lorcan O'Flannery

Richard McCrae

Project scope:

- *New build six storey over basement*
- *City centre site*
- *Third level College*

Educational Development

At LeeMcCullough we have worked on some of the finest educational facilities in the country, combining our specialist knowledge of renovation and adaptation for new use with our long experience of engineering new, high quality accommodation and learning facilities.

To Educational projects we bring:

- Appreciation of the need for engineering facilitation of modern, creative, architectural design
- Recognition of the culture of change and development, which is an integral part of the educational environment today; and
- An understanding of the need for adaptability within structures to meet future changes in curricula and technology

For many years now we at LeeMcCullough have utilized our accumulated knowledge and experience in the Education sector to contribute significantly to the projects for which we are commissioned.