

University College Dublin



Location

Dublin, Ireland

Built

international competition 2007, 1st prize

Execution: 2008 -

GFA 150.000 m²

Green Building: BREEAM outstanding

The “University College Dublin” (UCD), which can trace its roots back to 1854, is Ireland’s biggest university. Since the early 1960s its faculties have relocated to its Belfield campus. UCD wanted a redevelopment of its campus called the Gateway Project in order to establish itself as a leading university. The goal was to create “a living environment for students, staff, visitors and the wider community” (UCD). In 2007 ingenhoven architects had been selected after an international competition among 62 firms from across the globe. “The creativity of the design from Christoph Ingenhoven’s team meets the vision we set out to create a precinct of modern beauty which blends with the natural landscape of the campus and surpasses environmental standards for energy usage” (UCD President, Dr Hugh Brady). The “UCD Gateway” is a new type of campus that arranges existing and future buildings around a central green space. The eco-concept foresees a sustainable and car-free inner campus that is without any CO₂ emissions or use of fossil fuels. The main three parallel rows of buildings will share a common curved roof which provides continuity and enclosure for the Plaza and atria. The masterplan provides the campus with an entrance from the national road N11 through the Gateway Plaza. The UCD Gateway provides classrooms, laboratories, galleries, offices, retail spaces, a cinema, restaurants and bars, an outdoor performance space as well as students’ residences and a hotel.

Characteristic of the new building is its curved roof, covering all parts and integrating photovoltaic and solar thermal systems as well as wind turbines and greenery. The Gateway

Plaza comprises environmentally friendly, low energy buildings. The façades provide for insulation, natural ventilation and maximum daylight. The buildings will have efficient lighting systems and use solar and geothermal energy. The campus building would be 100% energy autonomous and help preserve natural resources. A storm water management system uses green roofs and wet landscapes to filter matters. Rainwater is used in the buildings' greywater cycle. The green lung with new trees and landscaped parks enhances the microclimate on campus as well as inside buildings and helps with the cooling, humidity and retaining matters. The great timber roof construction allows for a high degree of prefabrication, ensuring short construction periods and high quality.

Awards, Nominations

2011

MIPIM Architectural Review Future Project Awards 2011 –
nominee Regeneration and Masterplanning

Team

Client

UCD University College Dublin

General Planning

ingenhoven architects, Düsseldorf

Architect

ingenhoven architects, Düsseldorf

Christoph Ingenhoven, Rudolf Jonas, Michael Reiß, Ben Dieckmann, Thomas Höxtermann, Hinrich Schumacher, Alexander Andrejew, Darko Cvetuljski, Patrick Eßer, Holger Giesen, Christin Giesing, Stefan Henfler, Dieter Henze, Jan Herdmann, Christian Kob, Marco Lachmann, Jan Lorenz, Juliane Mietusch, Yahya Özütürker, Peter Pistorius, Katja Potzern, Michael Rathgeb, Florian Rieger, Jürgen Schumann, Claudia Steinborn, Peter Georg Vahlhaus, Thomas Vontz, Tessa Zaune

Structural Engineering

Werner Sobek Ingenieure GmbH, Stuttgart

Facade Consultant

DS-Plan AG, Stuttgart

Werner Sobek Ingenieure GmbH, Stuttgart

Building Physics

DS-Plan GmbH, Stuttgart

Fire Protection

Brandschutz Planung Klingsch GmbH, Düsseldorf

Michael Slattery & Associates, Dublin

Security Planning

RPS Consulting Engineers, Dublin

Industrial Aerodynamics

IFI Institut für Industrieaerodynamik GmbH, Aachen

Lighting Artificial- and Daylight

Tropp Lighting Design, Weilheim

Interior

ingenhoven architects, Düsseldorf

Landscape Architecture

ingenhoven architects, Düsseldorf

Topotek 1, Berlin

Vertical Access Planning

TAW Weisse, Hamburg

Traffic Engineering

Durth Roos Consulting GmbH, Darmstadt

RPS Consulting Engineers, Dublin

Transportation Systems

Jappsen Ingenieure, Berlin