

Certificate in Revit and 4D BIM



Start Date:

January 2022



Duration:

8 months

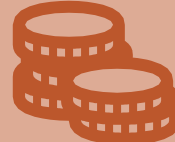
7 hours per week
(Two evenings)



Level:

Level 7.

30 Credits



Course Fee:

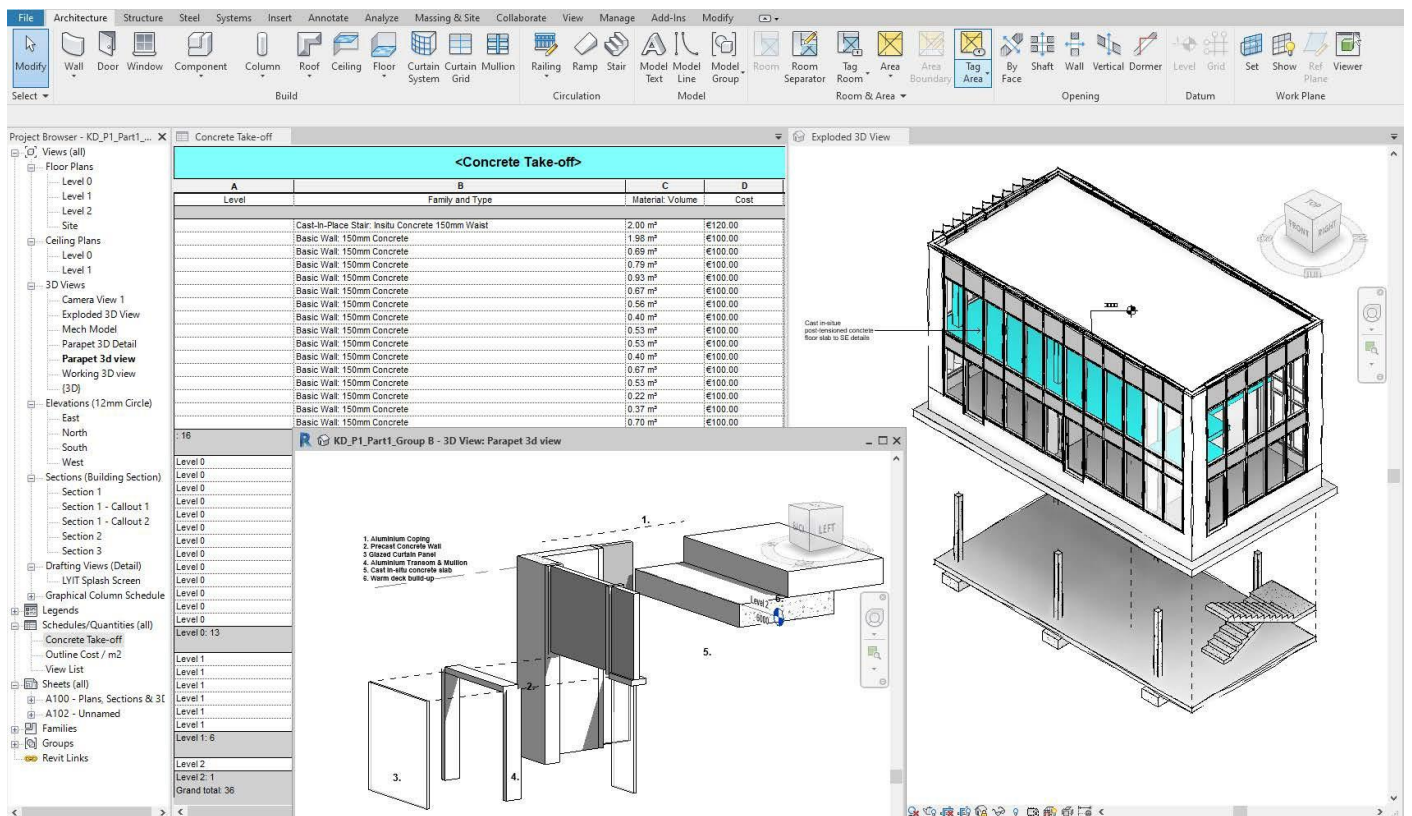
Unemployed: €0

Employed:
€230



Delivery Mode:

100% online



A	B	C	D
Level	Family and Type	Material Volume	Cost
Level 0	Cast-In-Place Stair: Insitu Concrete 150mm Waist	2.00 m³	€120.00
Level 0	Basic Wall: 150mm Concrete	1.98 m³	€100.00
Level 2	Basic Wall: 150mm Concrete	0.69 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.79 m³	€100.00
Level 1	Basic Wall: 150mm Concrete	0.93 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.87 m³	€100.00
Level 1	Basic Wall: 150mm Concrete	0.56 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.40 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.53 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.40 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.67 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.53 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.22 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.37 m³	€100.00
Level 0	Basic Wall: 150mm Concrete	0.70 m³	€100.00
Level 0: 13			
Level 1			
Level 1			
Level 1			
Level 1			
Level 1			
Level 1: 6			
Level 2: 1			
Grand total:		36	

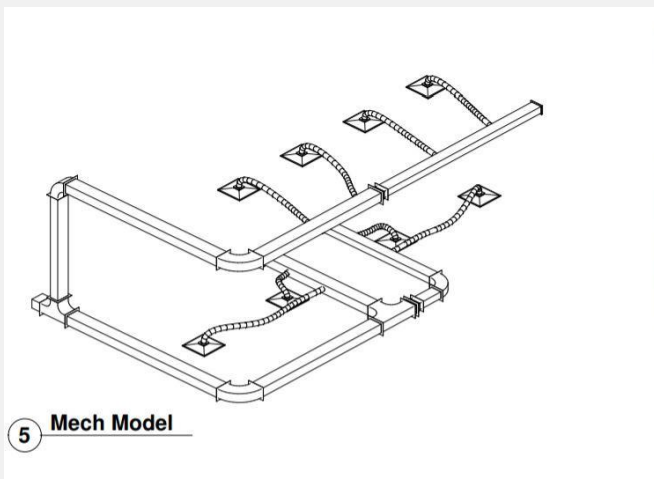
Level 7 – 30 Credits

Department of Civil Engineering and Construction

Programme Overview

The proliferation of BIM (Building Information Modelling) in the worldwide context means that Irish companies are striving to invest in the associated software and training. There is a demand for construction and engineering professionals with the acquired transferable and technical skills to take up the role of BIM operator or manager in the changed environment. The course focuses on practical skills in the use of current industry standard software applications, aiming to provide learners with the digital skills required in a BIM managed environment. The interactivity on future sites will require upskilled levels of ICT from those involved. Site management, procurement, administration, financial acumen and communication will absolutely require these rudimentary skills from employers. Marrying the ICT skills with maturity and experience will result in more employable candidates as the industry re-aligns itself. In the core modules, BIM with Revit and BIM for VDC (Virtual Design and Construction), the skills required for the workplace of the future are embedded by real-world project-based assignments.

The Building Energy Performance module links with the BIM modules to enable the learners to develop strategies for developing low energy to zero carbon buildings. Personal and Professional Development Skills module encourages the learner to reflect on their learning and develop enhanced learning and employability skills; Learners will be required to write a reflective log detailing their employment journey to date and their employment aspirations matched with their values and skills. The combined effect of the development of all of the above skills will strongly prepare learners for the workplace of the future; enabling collaboration, employability skills and research skills as well as life-long learning. The requirement for learners to consider their work (experience) in relation to professional competences will strongly support their ability to contribute and benefit from the workplaces of the future, to maximum effect.



Is There a Demand for Graduates with These Skills?

The BIM (Building Information Modelling) Roadmap was rolled out in Ireland in 2017, encouraging industry to embrace the BIM authorising tool Revit (Architecture, Structural and MEP), a standard software used worldwide. Graduates of the course are poised to take on BIM Management roles and lead the roll out of BIM nationally.



The introduction of BIM and the application of new computerised software for energy efficiency and other aspects of engineering design have led to an increasingly digital construction environment where there are opportunities for those who upskill accordingly.

Course Structure

Modules	Description	Mandatory/Elective	No of ECT Credits
BIM with Revit	This is a module in Building Information Modelling (BIM) using Revit.	Mandatory	10
Personal and Professional Development Skills	The aim of this module is to develop the skills required for enhanced learning and employability	Mandatory	5
BIM for VDC (Virtual Design and Construction)	This module explores the use of BIM in the effective design and delivery of construction projects.	Mandatory	10
Building Energy Performance	Energy efficient designs for new and renovation building projects that comply with Irish NZEB	Mandatory	5

*Timetables will be issued early September

Course Delivery

This course will be delivered part time (online) in the evenings. Delivery in this mode will facilitate upskilling and reskilling the widest possible group of company employees without requiring employees to cease employment while doing the course. As the course will be delivered online, it won't matter where in the country students are located.

The course is designed to run in part-time mode. The student will study the four taught modules (two at a time) over one academic year (in 2 blocks of 13 weeks).

The classes are typically not recorded and will only be available at the time of the live lecture.

Minimum Entry Requirements

The course will be available to applicants who meet the following criteria:

- Level 7 Degree in a Construction or Engineering or a related discipline.
- Candidates who do not have a degree but have significant relevant experience may also be eligible for consideration via Recognition of Prior Learning (RPL) which includes a combination of education, training and work experience.



Delivery Notes

- 100% Online, all students registering on the course should check the landing page for additional course information.
- Hardware/software required: Standard Autodesk computer specification OR use LYIT's virtual desktop via a basic PC
- A 2MB Internet connection is recommended for online classes. Additional notes and student updates will be provided via Blackboard which is the online teaching support system (Virtual Learning Environment (VLE)).
- When students have registered, they will have access to additional detailed information about course delivery and college services through our website. Students should make sure they familiarise themselves with this information.

Application Process

Course Fee

Springboard will cover 90% of the course fees for students who are currently in employment and 100% of the fees for students who are currently unemployed. The student contribution of 10% is €230.



Application Form

Applications can be made via the Springboard website [www.springboardcourses.ie](https://springboardcourses.ie). All applicants are required to provide a copy of their C.V., a copy of their highest education qualification certificate and documentary evidence of their eligibility for Springboard including residency (i.e. that they have been ordinarily resident in Ireland or the state EEA/EU/UK/Switzerland for 3 out of the last 5 years). Eligibility criteria for Springboard is available on the Springboard website at <https://springboardcourses.ie/eligibility>.

Registration

Registration with LYIT will be in January 2022 through Admissions. The course will start in January 2022.



Contact Details



For further information on the course, contact Anne Boner, Head of Department of Civil Engineering and Construction, Faculty of Engineering and Technology on E- Mail: Anne.Boner@lyit.ie



For further information on applying via Springboard contact the Springboard Office, Letterkenny Institute of Technology on E-Mail: Springboard@lyit.ie