

# Micro-Credentials in Building Information Modelling



 **DASBE**  
Digital Academy for the Sustainable Built Environment



Rialtas na hÉireann  
Government of Ireland



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Building Information Modelling (BIM) is an innovative new approach to building design, construction, and management. BIM has changed the way industry professionals worldwide think about how technology can be applied to building design, construction, and management. BIM also supports the continuous and immediate availability of project design, scope, schedule, and cost information that is high quality, reliable, integrated, and fully coordinated.

| Course Title  | Credits   | Duration   | NFQ Level | Campus          |
|---|---|--|-----------|-----------------|
| Micro-Credentials in Building Information Modelling (Pilot) | BIM Infrastructure: 10 credits<br>BIM Collaboration: 20 credits | BIM Infrastructure: 1 semester<br>BIM Collaboration: 2 semesters | 8         | ATU Galway City |



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## Why Study?

After completing the module **Building Information Modelling Infrastructure**, learners will:

- Display a detailed knowledge and understanding of infrastructure BIM models.
- Demonstrate an advanced understanding of the design criteria required for infrastructure BIM models in line with industry best practice.
- Design and virtually construct infrastructure BIM models from the design stage through to construction.
- Produce detailed drawings, designs, schedules and other information to a professional standard within a BIM environment.

After completing the module **Building Information Modelling Collaboration**, learners will:

- Have detailed knowledge of the BIM process using the appropriate standards.
- Use advanced skills to coordinate non-graphical and graphical information in a BIM environment.
- Work in an office environment effectively on a BIM team.
- Work in a common data environment using the appropriate standards.
- Develop and coordinate the digital data for collaborative work practices in a design and construction setting.
- Analyse BIM coordination problems and propose solutions:

## What to Expect

### Building Information Modelling Infrastructure

This module is delivered in a blended format. Onsite lectures will occur biweekly. This module will run from September to December and/or January to May (one semester in total).

### Building Information Modelling Collaboration

This module is delivered online with onsite attendance required occasionally. Lecturers and tutorials will be a blend of pre-recorded and live online classes. This module will run in January 2024 until December 2024 (two semesters in total).

## Entry Requirements

### Building Information Modelling Infrastructure:

To qualify for entry to this programme an applicant must hold a relevant Level 7 qualification or equivalent in a cognate area within the construction and built environment industry. Applications will also be accepted from mature applicants who have worked at an appropriate level within the construction industry and who may gain entry by the Recognition of Prior Learning (RPL) process.

### Building Information Modelling Collaboration:

To qualify for this module an applicant must hold a relevant Level 7 or Level 8 qualification or equivalent in a cognate area within the construction and built environment industry. Applicants must have a minimum duration of 3 years work experience within the construction and built environment. Applications will also be accepted from mature applicants who have worked at an appropriate level within the construction industry and who may gain entry by the Recognition of Prior Learning (RPL) process.



## Student Testimonial

*"I completed the BIM Infrastructure module as part of the Higher Diploma in Engineering in Building Information Modelling course.*

*The module covered the fundamental areas of infrastructure design. It gave me great insight into the tools, workflows, and procedures required to produce an infrastructure model.*

*The course is practical and industry-focused. I would highly recommend this module to anybody interested in linear infrastructure."*

**Ross Furey**  
*Senior Project Engineer with RPS*

## How to Apply

Applications can be made online at <https://apply.atugalwaymayo.ie>. Please select Application Type L8. From here you can fill out an online form, indicating what module(s) you wish to complete.

If you have any queries or need any assistance applying for a postgraduate course, please contact our Online, Flexible and Professional Development team who will guide you through the process. Email [learn.galwaymayo@atu.ie](mailto:learn.galwaymayo@atu.ie) and reference the course you're interested in applying for in your message.

**I want to know more.  
Who can I talk to?**

**Andy McNamara** is Programme Co-ordinator for this course. He will be happy to help you. You can contact him on:

**E** [andy.mcnamara@atu.ie](mailto:andy.mcnamara@atu.ie) **T** + 353 (0)91 742018

Or find out more at [www.atu.ie](http://www.atu.ie)



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