

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

BIM: A better way of working



# Τεχνολογία BIM (BIM = Building Information Modeling)

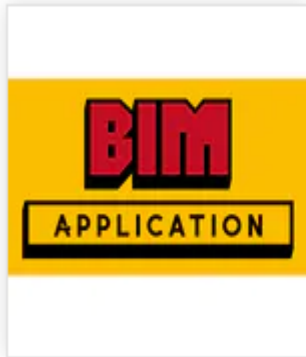
## Μέρος 02-02: Σεμινάρια και IFC viewers υποστήριξης του Μαθήματος

Αικ. Βαράνου, ΕΔΙΠ ΕΜΠ

# Coursera

## Recommended BIM Courses

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



### BIM Application for Engineers

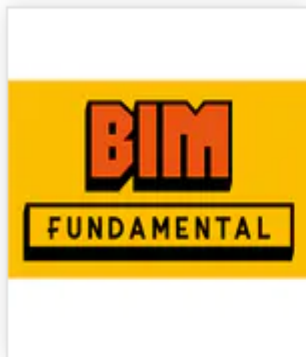
National Taiwan University

<https://www.coursera.org/learn/bim-application#about>

COURSE

★★★★☆ 4.6 (253) | 16K students

Intermediate



### BIM Fundamentals for Engineers

National Taiwan University

<https://www.coursera.org/learn/bim-fundamentals#about>

COURSE

★★★★☆ 4.7 (739) | 26K students

Beginner

# BIM Application for Engineers

★★★★★ 4.6 253 ratings • 60 reviews

## About this Course

71,326 recent views

In order to effectively reach the goal of learning, students will get familiar with the model-building process. The second module of the course will be on how to use Autodesk Revit to build BIM models. We will use an example case and guide students to build a 6-story BIM model from the CAD drawings step by step.

Then, in the following three modules, we will introduce three essential BIM applications one by one in each module, namely clash detection, quantity takeoff, and 4D simulation. We will use Autodesk Revit and Navisworks to build our BIM models in this course.

<https://www.coursera.org/learn/bim-application#about>

<https://www.coursera.org/learn/bim-application#syllabus>



### Shareable Certificate

Earn a Certificate upon completion



### 100% online

Start instantly and learn at your own schedule.



### Flexible deadlines

Reset deadlines in accordance to your schedule.



### Intermediate Level



### Approx. 18 hours to complete



### English

Subtitles: English, Vietnamese

Υποχρεωτικό [1] για όλους (20%)

# BIM Fundamentals for Engineers

## About this Course

118,452 recent views

The course is designed for students to learn the essential concepts of BIM, and the basic technical skills to create and manipulate a BIM model. Those skills include how to retrieve information from a BIM model and how to use common modeling tools.

<https://www.coursera.org/learn/bim-fundamentals#about>

<https://www.coursera.org/learn/bim-fundamentals#syllabus>

Κατ' επιλογή υποχρεωτικό [3α] (10%)



### Shareable Certificate

Earn a Certificate upon completion



### 100% online

Start instantly and learn at your own schedule.



### Flexible deadlines

Reset deadlines in accordance to your schedule.



### Beginner Level



### Approx. 11 hours to complete



### English

Subtitles: English, Vietnamese

The screenshot displays the Coursera interface for the course "BIM Application for Engineers" by National Taiwan University. The top navigation bar includes the Coursera logo, an "Explore" button, a search bar with the text "What do you want to learn?", a notification bell, and a user profile for "Ekaterini Varanou".

The course overview section features a progress bar with 6 weeks. The progress is as follows:

Week	Progress
WEEK 1	Completed
WEEK 2	1/3 completed (+1)
WEEK 3	0/1 completed
WEEK 4	1/3 completed (+1)
WEEK 5	4/4 completed (+4)
WEEK 6	0/0 completed

The "My Weekly Goal" section states: "Learners who set a goal are 75% more likely to complete the course. We'll help you track your progress." A "Set goal" button is available.

The "Assignment 1" section for Week 2 is titled "Assignment 1" and includes the instruction: "Find out what to review by testing what you've learned so far." A "Start" button is present.

A modal dialog titled "Set a weekly goal" is open, showing the following options:

- Learn 2 days a week (Recommended)
- Learn 3 days a week
- Learn 5 days a week

The dialog also includes the text "Your goal will be tracked Monday - Sunday" and buttons for "Not now" and "Set goal".

The screenshot shows the Coursera interface for a course titled "Modeling of a Building". At the top, there is the Coursera logo, an "Explore" dropdown menu, a search bar with the text "What do you want to learn?", and a notification bell icon. On the left side, there is a navigation menu with the following items: "Overview" (highlighted), "Week 1", "Week 2", "Week 3", "Week 4", "Week 5", "Week 6", "Grades", "Notes", "Discussion Forums", "Messages", and "Course Info". The main content area is divided into two sections. The first section is titled "Modeling of a Building" and features a circular profile picture of the instructor, 謝尚賢 (Xie Shangxian). The second section is titled "Practice" and lists several activities: a "Reading" task "Download files" (2 min) with a green checkmark, and four "Video" tasks: "201 Revit exercise: set up the project" (10 min), "202 Revit exercise: model the foundation" (8 min), "203 Revit exercise: model the structural elements and walls" (12 min), and "204 Revit exercise: place doors and windows" (5 min). The "204" video task is highlighted in grey and has a blue "Resume" button to its right. Below it are three more video tasks: "205 Revit exercise: model stairs" (10 min), "206 Revit exercise: model decorations" (16 min), and "207 Revit exercise: place equipment" (3 min).








## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

Week 2 Estimated Time: 4h 38m ^

### Modeling of a Building

Videos  38 min left

Readings  Done

REQUIRED	GRADE	DUE
 <b>Peer-graded Assignment</b> Assignment 1 <b>1h</b>		Oct 19 9:59 AM EEST
 <b>Review Your Peers</b> Assignment 1		Oct 22 9:59 AM EEST
 <b>Peer-graded Assignment</b> Assignment 2 <b>1h</b>		Oct 19 9:59 AM EEST
 <b>Review Your Peers</b> Assignment 2		Oct 22 9:59 AM EEST
 <b>Peer-graded Assignment</b> Assignment 3 <b>1h</b>		Oct 19 9:59 AM EEST
 <b>Review Your Peers</b> Assignment 3		Oct 22 9:59 AM EEST
 <b>Peer-graded Assignment</b> Assignment 4 <b>1h</b>		Oct 19 9:59 AM EEST



## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

BIM Application for Engineers &gt; Week 2 &gt; Assignment 1

## Practice

## Assignment

Peer-graded  
Assignment:  
Assignment 1  
1h

Review Your Peers:  
Assignment 1

Peer-graded  
Assignment:  
Assignment 2  
1h

Review Your Peers:  
Assignment 2

Peer-graded  
Assignment:  
Assignment 3  
1h



## You can do it

This assignment typically takes around **1 hour, 3 minutes** to complete. Though challenging, it's a great way to build and apply your new skills.

Was this helpful?

## Instructions

## My submission

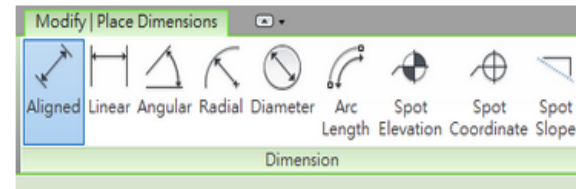
## Discussions

## REQUIREMENT

After you complete Module 202, please show all essential components. Use the "Aligned" dimension tool to show the dimensions between the grids. Take screenshots for both the "1F" floor plan view and the 3D view.

Under the "Modify | Place Dimensions" tab, select the "Aligned" tool.

On the "1F" floor plan, add dimensions between the horizontal grids and between the vertical grids, as shown in the submission example.



## GRADING CRITERIA OVERVIEW

Does the screenshot contain grids, property lines, toposurface, and reference plans?

Are the dimensions between the grids consistent with those in the provided 2D CAD file?

Does the screenshot of the 3D view contain topography (with specified material), building pad, columns, beams, walls, and slabs of the foundation?

**☐ Προσοχή στον αριθμό έκδοσης των λογισμικών !!!**

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



Overview

**Grades**

Notes

Discussion Forums


Messages


Course Info



There are 8 assignments coming up. Be sure to submit them before the deadline.

Item	Status	Due	Weight	Grade
<b>Assignment 1</b>				
Submit your assignment and review 3 peers' assignments to get your grade.			2%	--
<b>Submit your assignment</b>	--	Oct 19 9:59 AM EEST		
<b>Review 3 peers' assignments.</b>	--	Oct 22 9:59 AM EEST		
<b>Assignment 2</b>				
Submit your assignment and review 3 peers' assignments to get your grade.			2%	--
<b>Submit your assignment</b>	--	Oct 19 9:59 AM EEST		
<b>Review 3 peers' assignments.</b>	--	Oct 22 9:59 AM EEST		

Explore ▾




- Overview
- Grades
- Notes
- Discussion Forums**
- Messages
- Course Info

Discussion Forums

## Week 1

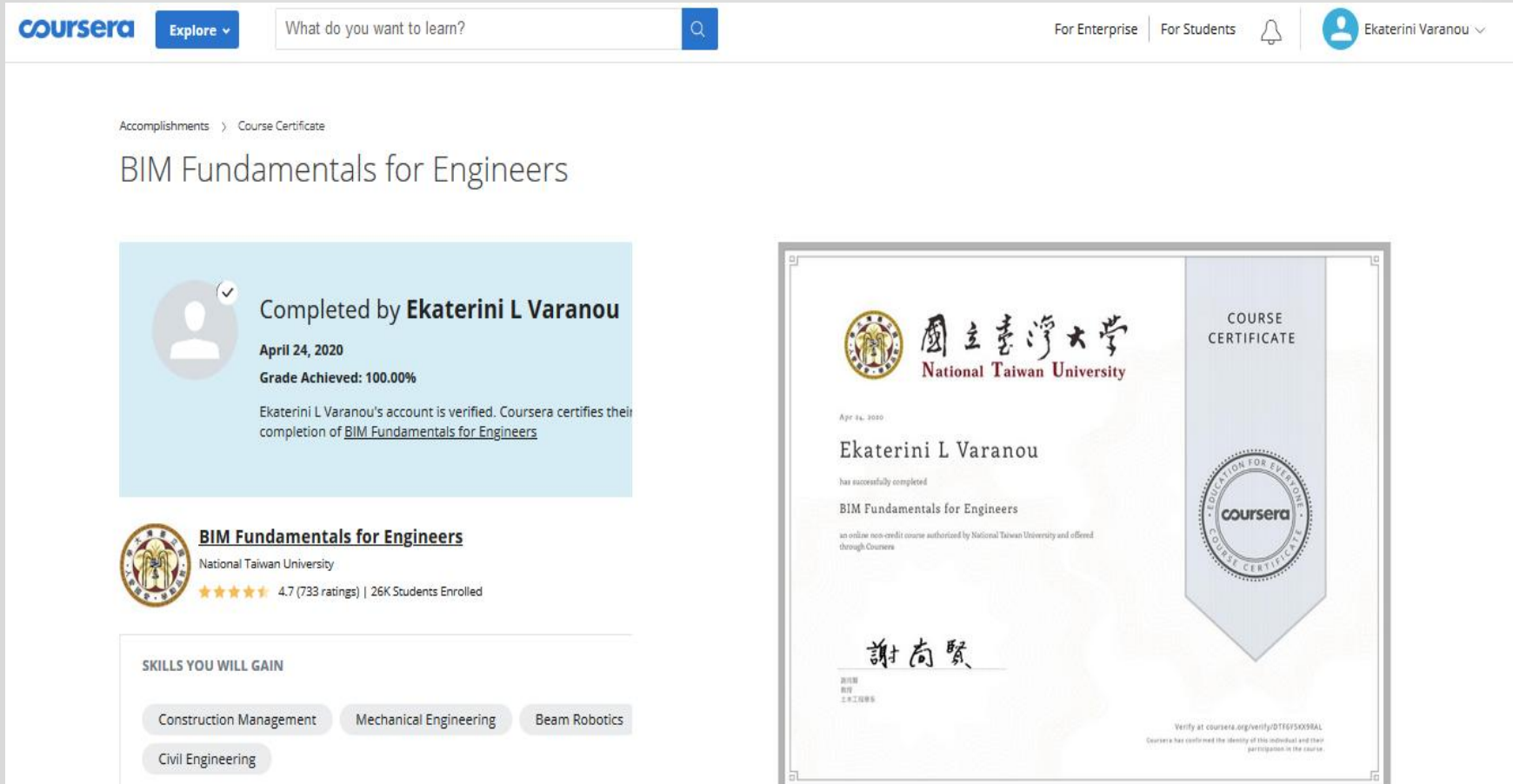
Discuss this week's modules here. [Subscribe](#)

**SORT BY:** Latest ▾

 [New Thread](#)

<b>installation doubt</b>	<b>22</b>	<b>1</b>
	views	replies
Last post by <a href="#">William bolano</a> · 19 days ago		
<b>In a wrong class</b>	<b>32</b>	<b>1</b>
	views	replies
Last post by <a href="#">Syed Shakeeb Ahmed</a> · a month ago		
<b>Please review my assignment &amp; gave me full marks . I will do the same for you immediately . Just drop your link .</b>	<b>9</b>	<b>1</b>
	views	replies
Last post by <a href="#">Mariana Loo Wu</a> · a month ago		
<b>revit version</b>	<b>24</b>	<b>1</b>
	views	replies
Last post by <a href="#">Bala Arizalu Putra Dinar</a> · a month ago		
<b>Navisworks Manage or Simulate ?</b>	<b>7</b>	<b>0</b>
	views	replies
Created by <a href="#">yash banode</a> · a month ago		

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



The screenshot shows the Coursera interface for a completed course. The course is 'BIM Fundamentals for Engineers' by National Taiwan University. The user, Ekaterini L Varanou, completed it on April 24, 2020, with a grade of 100.00%. The course is verified by Coursera. The skills gained are Construction Management, Mechanical Engineering, Beam Robotics, and Civil Engineering. A digital certificate is displayed on the right, signed by 謝尚賢 (Xie Shangxian).

- €35 **ΌΧΙ!** – Δεν απαιτείται certificate εφόσον δεν χορηγείται δωρεάν
- Τεκμηρίωση βημάτων - ημερολόγιο (submit, reviews) , αρχεία που παράγω κλπ **ΝΑΙ!**
- Εγγραφή μέσω της πρόσκλησης που θα μου σταλεί

**Πως εγγράφομαι στη  
National Technical University  
Learning Platform της Coursera**

## Learning Programs <sup>i</sup>

[How Learning Programs Work](#) ^

### How do Learning Programs work?

A Learning Program is a place where a group of invited learners have access to a catalog of courses that help them develop relevant skills that will help them perform in their current job and accomplish their future career goals.

Learners must be invited to join a Learning Program and a learner can join multiple Learning Programs.

Each Learning Program has a dedicated catalog of courses that only learners invited to join that program can access.

Program Admins can edit the catalog of course recommendations and add curated collections of courses. They can also invite, remove and view reports for the learners of that Learning Program.

**coursera**

National Technical University of Athens has invited you to start learning on Coursera.

Hi, Demos Touliatos!

Congratulations - you have been invited to participate in an online professional development program through Coursera. Select your courses and start learning!

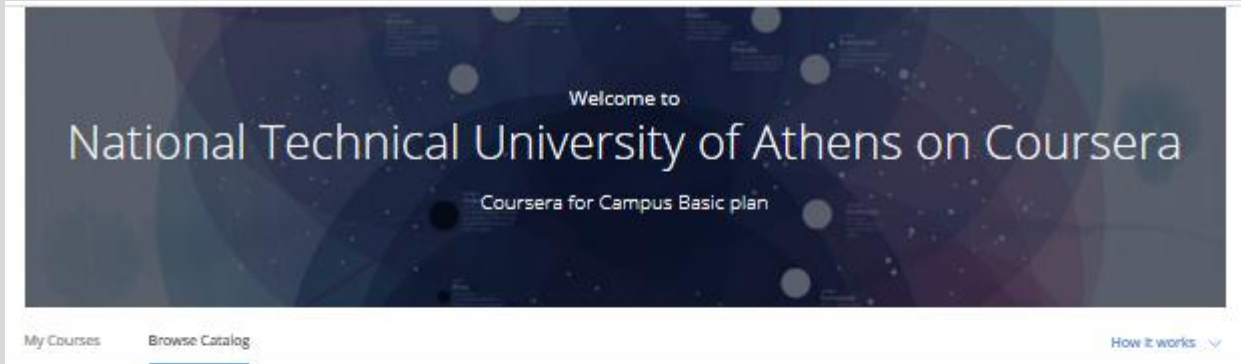
This is your personal invitation. **Do not share** it with anyone else. If anyone else uses it, they'll be able to access your Coursera account.

Ready to get started?

[Join Now](#)

Συμμετέχω μέσω της πρόσκλησης που θα λάβω.  
Αν έχω αρχίσει ήδη το course, εμφανίζεται η πρόοδός μου!

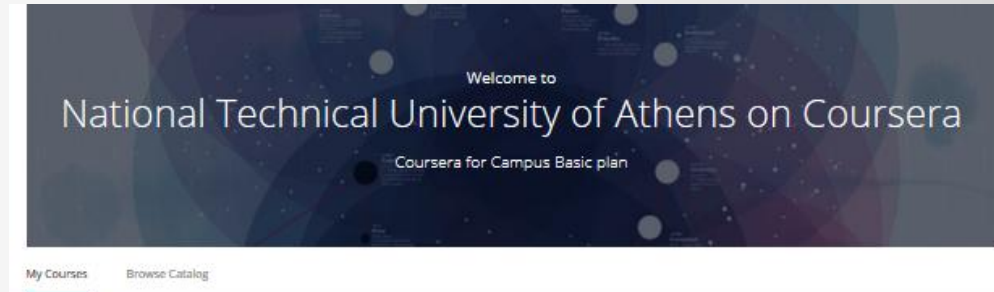
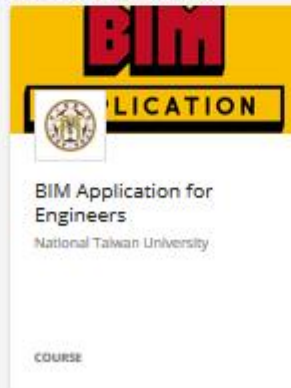
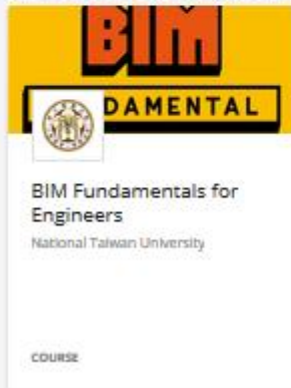
## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



Curated recommendations for you

### NTUA for BIM on Coursera Collection

BIM courses for additional study, 9th Semester of the Civil Engineering School



### MY COURSES



Analytics are updated daily.

### Learner Activity

Enrollments

Completions

Learner Feedback

Skills Development

Ένα course κάθε φορά !

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

**Συνολική Αξιολόγηση:** ..... 100%

### Επιμέρους Συντελεστές Βαρύτητας:

✓ **Γραπτή εξέταση:** ..... 40%

✓ **Παρουσίαση Θέματος (\*1):** ..... 20%

✓ **e-Learning:** ..... 40%

- Υποχρεωτικό [1]: ..... 20% (για όλους (\*2))
- Υποχρεωτικό [2x]: ..... 10% (2α για [Δ], 2β για [Σ] & [Υ])
- Κατ' επιλογή [3z]: ..... 10% (ένα εκ των 3α, 3β, 3γ)

(\*1) υποχρεωτική η εξοικείωση με κάποιον από τους προτεινόμενους στη συνέχεια viewers (5%)

(\*2) χωρίς υποχρέωση certificate εφόσον αυτό δεν παρέχεται δωρεάν



Λοιπά (ενημερωτικά)



## 3D CAD Fundamental

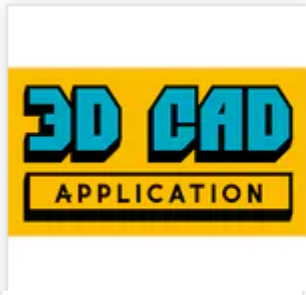
National Taiwan University

COURSE

<https://www.coursera.org/learn/3d-cad-fundamental>

★★★★☆ 4.7 (284) | 25K students

Beginner



## 3D CAD Application

National Taiwan University

COURSE

<https://www.coursera.org/learn/3d-cad-application>

★★★★☆ 4.9 (85) | 8.1K students

Intermediate



## Design Computing: 3D Modeling in Rhinoceros with Python/Rhinoscript

University of Michigan

COURSE

<https://www.coursera.org/learn/3d-modeling-rhinoscript>

★★★★★ 5 (6) | 1.9K students

Mixed

Λοιπά (ενημερωτικά)



## Construction Management

Columbia University

<https://www.coursera.org/specializations/construction-management>

SPECIALIZATION

★★★★☆ 4.7 (4,405) | 74K students

Beginner



## Project Management Principles and Practices

University of California, Irvine

<https://www.coursera.org/specializations/project-management>

SPECIALIZATION

★★★★☆ 4.7 (20,026) | 340K students

Beginner



## Fundamentals of Project Planning and Management

University of Virginia

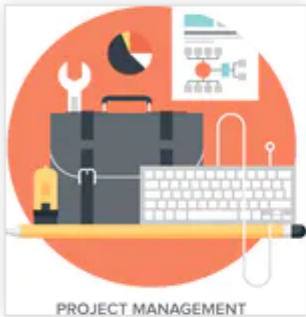
<https://www.coursera.org/learn/uva-darden-project-management>

COURSE

★★★★☆ 4.7 (4,428) | 170K students

Beginner

Λοιπά (ενημερωτικά)



## Construction Project Management

Columbia University

<https://www.coursera.org/learn/construction-project-management>

COURSE

★★★★☆ 4.8 (3,546) | 53K students

Beginner



## Managing Major Engineering Projects

University of Leeds

<https://www.coursera.org/specializations/managing-major-engineering-projects>

SPECIALIZATION

★★★★☆ 4.7 (653) | 15K students

Intermediate



## Construction Cost Estimating and Cost Control

Columbia University

<https://www.coursera.org/learn/construction-cost-estimating>

COURSE

★★★★☆ 4.7 (1,225) | 23K students

Beginner

# Autodesk

## Recommended BIM Courses

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



**Υποχρεωτικό [2α] για [Δ] (10%)**

This course shows you how to design, analyze, and document your engineering project. You'll utilize the integrated analysis functionality to explore engineering, design, and construction decisions. Lessons on 2D sketching and hand calculations teach you the engineering skills required for solving problems and challenges on structural projects. Instruction in **Autodesk® Robot™ Structural Analysis Professional software** provides you with advanced building simulation and analysis capabilities for large and complex structures so that you can quickly perform simulations and analysis of a variety of structures.

Download the course [data sets](#) to follow along with the lesson in course, including files for Revit and Robot Structural Analysis Professional. The files are not required but are there to allow you to practice on your own.

<https://academy.autodesk.com/course/139505/introduction-structural-analysis>

## Introduction to Structural Analysis

9 lessons | 5 hours

Getting started

Lesson 1: Construction Documents

Lesson 2: Sketching and Basic Structural Design

Lesson 3: Lateral Design of Loads

Lesson 4: Designing Reinforced Concrete

Lesson 5: Designing Structural Steel

Lesson 6: Phased-based Construction Design

Lesson 7: Course assessment

Next steps

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



## BIM: Highway and Transportation Infrastructure Modeling

9 lessons | 4 hours 15 minutes

In this course, you will learn how to leverage the power of the Autodesk AEC Collection to conceptualize, design, and simulate new highway designs. You will start with **InfraWorks 360** to understand existing conditions and deliver the basic engineering design of the highway. Then, you will move into AutoCAD Civil 3D to detail out the design and prepare construction documents. Finally, you will return back to InfraWorks 360 to explore advanced transportation design techniques such as analysis and “drive through” simulations of the new route.

Get started with the highways and transportation design process using **InfraWorks 360** and **AutoCAD Civil 3D**. In this lesson, get an overview of InfraWorks 360 and AutoCAD Civil 3D and download the datasets used in this course..

<https://academy.autodesk.com/course/112841/bim-highways-and-transportation>

**Υποχρεωτικό [2β] για [Σ] & [Υ] (10%)**

Lesson 1: Getting started

Lesson 2: Establishing existing conditions

Lesson 3: Conceptual design

Lesson 4: Detailed design

Lesson 5: Visualization and simulation




Lesson 6: Plan production and deliverables

Lesson 7: Advanced transportation

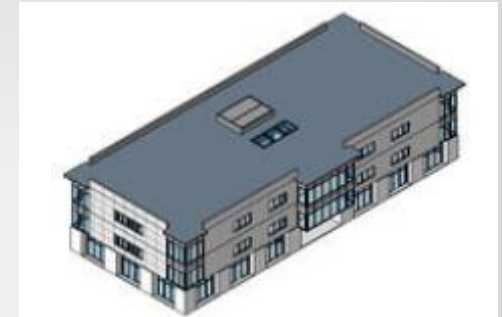
Additional resources

Next steps

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

 CONSTRUCTION MANAGEMENT <a href="#">BIM for Construction Management and Planning</a>	 Level Intermediate
 Software Revit	 Time 15+ hours

Learn how BIM tools can be used throughout the building life cycle, beyond the design and documentation. Use BIM models to support construction techniques, construction planning, cost and quantity feedback, fabrication, and facilities management.



Project resource download

<https://academy.autodesk.com/curriculum/bim-construction-management-and-planning#asset-section>

Κατ' επιλογή υποχρεωτικό [3β] (10%)

Instructor Manual

Student Manual

Module 01 Construction Modeling

Module 02 4D Simulation and Construction Planning

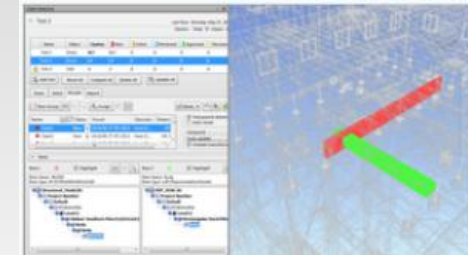
Module 03 Cost Estimating and Quantity Takeoff

Module 04 Facilities Management



## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

<p><u><a href="#">BIM: Integrated Project Delivery</a></u> by Design Academy</p>	<p> Level Intermediate</p>
<p> Software Revit</p>	<p> Time 11-15 hours</p>



Learn how BIM tools can be used to support an integrated project delivery approach by exploring how to create a composite model, enable collaborative review, plan construction sequences, and communicate with different audiences.

Project resource download

<https://academy.autodesk.com/curriculum/bim-integrated-project-delivery>

Κατ' επιλογή υποχρεωτικό [3γ] (10%)

Module01 Integrated Project Delivery

Module02 Model Integration and Management

Module03 Identifying and Resolving Issues

Module04 Scheduling and 4D Simulation

Module05 Presenting the Project Model



## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

**Συνολική Αξιολόγηση:** ..... **100%**

### Επιμέρους Συντελεστές Βαρύτητας:

✓ **Γραπτή εξέταση:** ..... **40%**

✓ **Παρουσίαση Θέματος (\*1):** ..... **20%**

✓ **e-Learning:** ..... **40%**

- Υποχρεωτικό [1]: ..... **20%** (για όλους (\*2))
- Υποχρεωτικό [2x]: ..... **10%** (2α για [Δ], 2β για [Σ] & [Υ])
- Κατ' επιλογή [3z]: ..... **10%** (ένα εκ των 3α, 3β, 3γ)

(\*1) υποχρεωτική η εξοικείωση με κάποιον από τους προτεινόμενους στη συνέχεια viewers (5%)

(\*2) χωρίς υποχρέωση certificate εφόσον αυτό δεν παρέχεται δωρεάν

# Προτεινόμενοι IFC viewers

(δωρεάν λογισμικό)

The screenshot displays the Trimble Connect 3D Viewer interface. At the top, a navigation bar shows the project name 'BIM2020\_WG-05' and a series of icons for navigation and editing. On the left, a 'Models' sidebar lists 'Project-1.ifc'. The central area features a 3D model of a building with a yellow roof and grey walls, with the text 'Trimble Connect 3D Viewer (περιλαμβάνεται στην πλατφόρμα Trimble Connect)'. A bottom toolbar indicates '1 selected' and includes icons for information, link, share, and visibility, along with a 'Change visibility' button. On the right, a 'Project-1.ifc' details panel shows metadata such as creation and modification dates, version, size, and folder path. A comment input field is located at the bottom right of the interface.

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



## Download BIMvision

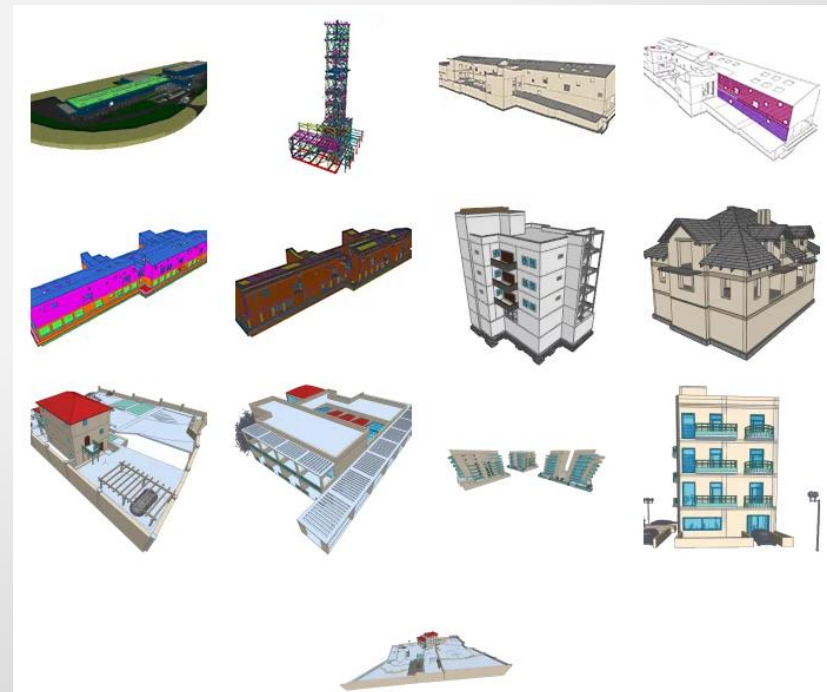
Download BIMvision

Mirror, Release notes

<https://bimvision.eu/en/download/>

Free for personal and commercial use.

Example IFC models:





IFC Viewer

# US **BIM**.viewer+

Need to open an IFC file?

Do you also need to modify it?

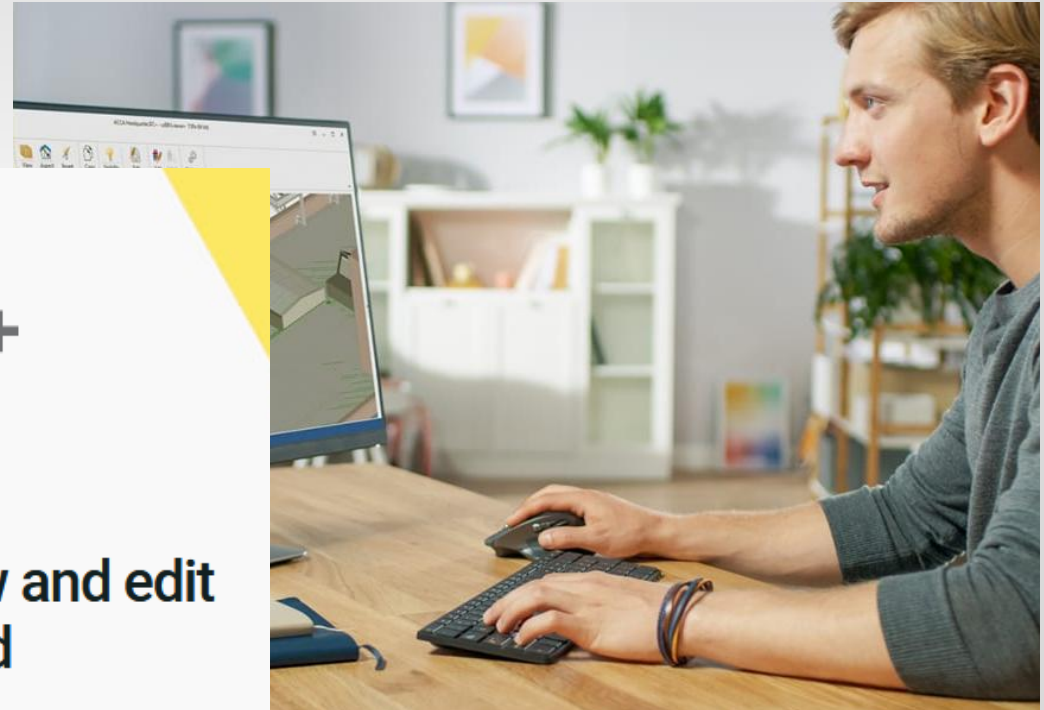
**Here's the free software to view and edit  
BIM models in the IFC standard**

 Use it for free

Software and technical support totally for free

<https://www.accasoftware.com/en/ifc-viewer>

WATCH VIDEO



# Solibri Anywhere

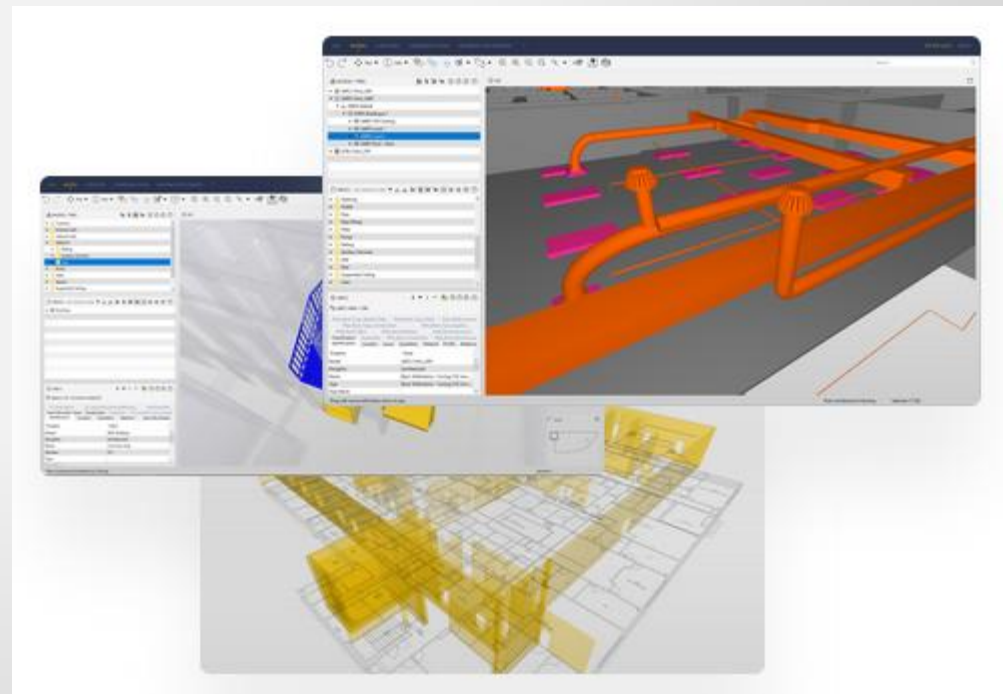
As fans of seamless and open information flows, we at Solibri believe that quality information should be easily accessible for all those who need it in your project. That's why we offer Solibri Anywhere for everyone – for free.

Happy to go with Solibri  
Anywhere?

Download it for free and connect to all the Solibri  
professionals in your project.

Start your registration

<https://www.solibri.com/solibri-anywhere>



## Freeware

Beside commercial software packages there is also a number of software tools free of charge (freeware) that support IFC. Tools include **viewer** to visualize an IFC model, often in conjunction with showing the project structure and the properties of objects, **text browser** to show the original IFC file for debugging, **converter** to convert project data from/to other file formats, and **syntax checker** to check the formal validity of IFC files.



<http://www.ifcwiki.org/index.php/Freeware>

















## Άλλοι IFC viewers

### Freeware IFC tools for visualizing, checking and translating IFC files

- [ACCA software](#) **usBIM.viewer+**, a free software to view and edit BIM models in the IFC standard --> [Download](#)
- [Areddo](#) **Areddo**, a BIM viewer for IFC and pointclouds (.PTS) --> [Download](#)
- [BIM Beaver](#) **BIM BEAVER**, – a free Viewer from the company BIM VILLAGE --> [Website](#)
- [BIMData](#) **BIMData**, the BIM collaborative platform --> [Website](#)
- [Bimserver.org](#) **Open Source BIM Server**, an open source BIM Server based on IFC --> [Website](#)
- [BIM surfer WebGL viewer](#) **BIM Surfer**, an open source WebGL viewer for IFC in the webbrowser --> [Website](#)
- [BlenderBIM Add-on](#) **BlenderBIM Add-on**, an add-on for OpenBIM with Blender --> [Download](#)
- [Cadalog, Inc](#) **IFC2SKP**, IFC Import Plugin for Google SketchUp 8 --> [Download](#)
- [Constructivity](#) **Constructivity Model Viewer**, a viewer for IFC Data --> [Download](#)



## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

- [CSTB](#)  **eveBIM**, Multi-scale viewer for IFC, BCF, CityGML and GIS files. Multiples plugins for viewpoints, clipping, colorization, properties edition... --> [Download](#) 
- [datacomp](#)  **BIM Vision**, first Polish browser for IFC format--> [Download](#) 
- [Data Design System](#)  **DDS-CAD Viewer**, a viewer for IFC Data \*.ifc, \*.ifcZIP, \*.ifcxml, \*.gbxml--> [Download](#)   
**DDS IFC Reader**, drag & drop IFC files and examine --> [Download](#) 
- [G.E.M. Team Solutions](#)  **IfcQuickBrowser**, Text-browser for large IFC files. The IFC file is displayed in a tree structure. --> [Download](#) 
- [IfcOpenShell.org](#)  **IfcOpenShell** is a free open source IFC geometry engine. Besides the library itself, it features an [importer for Autodesk 3ds Max](#) , an [importer for Blender](#)  and a [stand-alone application](#)  to convert into the Wavefront .OBJ file format. --> [Website](#) 
- [IfcWebServer.org](#)  **IfcWebServer.org** is a free to use data model server and online viewer for Building Information Models (BIM) based on IFC standards. BIM managers and designers can query, filter and make reports about any information inside IFC models easily. The IFCWebServer can be used also in universities for BIM courses. Students can register and upload IFC models, explore the structure, apply filters, create sub-models and generate reports. --> [Website](#) 



## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

• **Nemetschek AG** [↗](#)

**Nemetschek IFC Viewer**, free 3D IFC Viewer, supports IFC format and XML IFC Format -->[Download](#) [↗](#) (Dead link) **Support Forum**, open Support Forum for IFC Viewer --> [visit forum](#) [↗](#)

• **NIST** [↗](#)

**IFC File Analyzer**, Generate an Excel spreadsheet or CSV files from an IFC file -->[Download](#) [↗](#)

**SteelVis - CIS/2 to IFC Translator**, CIS/2 to IFC Translator for structural steel -->[Download](#) [↗](#)

• **Open Source BIM collective** [↗](#)

**Open source BIM collective** created to support and build the Building Information Modeling software Projects like IFCWebServer, BIM translator (CityGML and IFC), BIMserver.org up to create a stable suite of free everybody to use! --> [Website](#) [↗](#)

• **Open IFC Tools** [↗](#)

**Open IFC tools**, a set of tools for open source IFC development. --> [Overview](#) [↗](#)  
including [open Java toolbox](#) [↗](#), [IFC modeller](#) [↗](#), and [Schedule assistant](#) [↗](#)

• **Open IFC Tools** [↗](#)

**Open IFC tools**, a set of tools for open source IFC development. --> [Overview](#) [↗](#)

including [open Java toolbox](#) [↗](#), [IFC loader for Java-3d](#) [↗](#), [Boolean modeller](#) [↗](#), and [Schedule assistant](#) [↗](#)

• **RDF Ltd.** [↗](#)

**IFC Viewer**, an [IFC Viewer](#) [↗](#) for Windows (DirectX 9), Unicode, IFC 2x3 (TC1) as well as IFC 4 and both 32/64 bit versions. -->[Download](#) [↗](#)

**IFC Viewers Source Code**, the same viewer with C++ source code for 32/64 bit Unicode, including non-Unicode versions and a C# 32 bit version. -->[Download](#) [↗](#)

**IFC Examples Source Code**, C++ and C# examples of IFC applications reading/writing including 'Hello Wall'/'Hello World' and IFC Viewers (all based on the <http://rdf.bg/ifc-engine-dll.php> [↗](#) IFC Engine DLL). -->[Download](#) [↗](#)

• **Solibri** [↗](#)

**Solibri IFC Optimizer**, a tool for optimizing/compressing IFC files [Solibri IFC Optimizer](#) [↗](#) **Solibri Model Viewer**, a viewer for IFC and Solibri Model Checker Data [Solibri Model Viewer](#) [↗](#)  
(Both Solibri softwares run on Windows and Mac OS X.)

• **Tekla** [↗](#)

**Tekla BIMsight**, \*.ifc, \*.ifcZIP, \*.ifcxml, \*.dgn, \*.dwg, \*.xml files, you can combine models and run clash detection for free --> [Download](#) [↗](#)



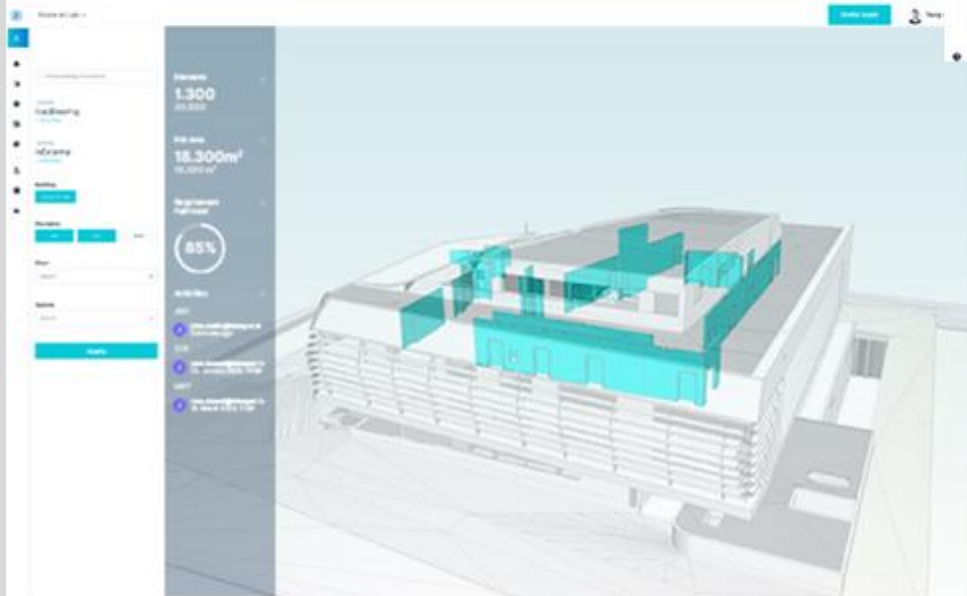
# Upload. View. Share.

Free IFC Viewer by bimspot

<https://ifc-view.com/>



We are certified by buildingSMART international.



Upload your IFC file

Drag & drop your file here or

Browse

# Άλλα διαδικτυακά Σεμινάρια

# BIM UPSKILLING

## DIGITAL ENGINEERING

ΔΩΡΕΑΝ!

# Welcome to BIM UPSKILLING

Raising knowledge of Digital Engineering across industry

## New account

▼ Collapse all

There are required fields in this form marked \*.

▼ Choose your username and password (username must be a single word all lowercase)

Username\*

demo

**demo** Only lowercase letters allowed

The password must have at least 8 characters, at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 non-alphanumeric character(s) such as as \*, -, or #

Password\*

●●●●●●●●

**Dt-040452**

<https://www.bimupskilling.com/>

Thanks, Demos Touliatos

Your registration has been confirmed

Continue



HS2

# Welcome to the BIM Upskilling Platform

An accessible, engaging and innovative learning platform, providing a wide range of free to access e-learning courses and resources on Building Information Modelling (BIM) and Digital Engineering.

## Site Content

The **BIM Upskilling Platform** raises knowledge across industry and ensures a consistent message is delivered to HS2 Ltd's extensive supply chain and delivery partners, by providing a wide range of free to access e-learning courses and resources on Building Information Modelling (BIM) and Digital Engineering.

The BIM Upskilling platform is an accessible source of upskilling materials on Building Information Modelling (BIM) and Digital Engineering with specific focus on the Rail industry.

The platform aims to provide engaging and innovative learning experience for all users, including self-service learning and assessment, HS2 specific e-learning; videos; links to industry standards and best -practice guidance documents.

Content on the site is relevant if you are new to BIM or already implementing BIM in your organisation. We will continue to update the site, with more courses being added at regular intervals. We recommend that you keep visiting to view new and updated content as it is available.

<https://www.bimupskilling.com/totara/dashboard/index.php?id=34>



# Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)

## BIM UPSKILLING DIGITAL ENGINEERING

WATCH VIDEO

ΔΩΡΕΑΝ!

Your Available Courses



Developing a good quality BEP – practice guidance.

0% Progress



Digital Engineering Benefits Realisation Framework

0% Progress



Digital Engineering Data Quality Framework

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Digital Engineering Strategy and Vision

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Strategy, Objectives and Plan: Part 1

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Strategy, Objectives and Plan: Part 2

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The Information Delivery Cycle at HS2 Part 1: Introductory Overview

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The Information Delivery Cycle at HS2 Part 2: Exploring the Management Process

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The Information Delivery Cycle at HS2 Part 3: Exploring the Information Process

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Working together to deliver BIM Part 1: Key BIM Documentation

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Working together to deliver BIM Part 2: BIM Roles and Responsibilities

0% Progress



Working together to deliver BIM Part 3: Realising the Benefits

0% Progress

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



ΣΥΜΒΟΥΛΙΟ  
ΑΕΙΦΟΡΩΝ ΚΤΙΡΙΩΝ  
ΕΛΛΑΔΑΣ



### ΣΕΜΙΝΑΡΙΑ ΜΕ ΘΕΜΑ ΤΟ BUILDING INFORMATION MODELLING (BIM) ΑΠΟ ΤΟ BRE ACADEMY

Το SBC GREECE δίνει τη δυνατότητα στα μέλη του να παρακολουθήσουν πιστοποιημένα online σεμινάρια αειφορίας του BRE ACADEMY, με **έκπτωση 20%**!

Ανάμεσα σε αυτά είναι και η σειρά σεμιναρίων με θέμα το Building Information Modelling για το δομημένο περιβάλλον και τις κατασκευές καθώς και πολλά live και on-demand webinars.

Για να δείτε τα σεμινάρια και να λάβετε τον έκπτωτικό κωδικό επισκεφτείτε το παρακάτω link:

<http://sbcgreece.org/bre-academy-courses/>



#### BIM Level 2 Essentials – Online

~~€271.00~~ €216.80 + VAT

BIM Essentials equips participants with an understanding of BIM and BIM best practice which, when adopted, leads towards efficient delivery, driving excellence, preventing accidents and saving time and money – both now and in future years.

12 CPD HOURS • 12 HOURS • 23 MODULES



#### BIM ISO 19650 Online Training Bundle

~~€434.00~~ €347.20 + VAT

Building information modelling (BIM) is transforming construction, and skills are in high demand.

18 CPD HOURS • 18 HOURS • 12 MODULES





ΣΥΜΒΟΥΛΙΟ  
ΛΕΙΦΟΡΩΝ ΚΤΙΡΙΩΝ  
ΕΛΛΑΔΑΣ

## Κερδίστε 20% έκπτωση σε πιστοποιημένα σεμινάρια αειφορίας του BRE ACADEMY:

Το SBC GREECE δίνει τη δυνατότητα σε όλα τα μέλη του να παρακολουθήσουν **επιλεγμένα** online courses του BRE ACADEMY, με **έκπτωση 20%**! Για να λάβετε τον εκπαιδευτικό κωδικό, παρακαλούμε συμπληρώστε την παρακάτω φόρμα.

BIM

### bre KNOW BIM TRAINING

#### BIM courses and certification pathway

Building Information Modelling (BIM) is transforming construction, enabling digitisation of design and operational processes...

EXPLAINS OUR BIM COURSES

BIM



#### BIM ISO 19650 Awareness – Online

~~€54.00~~ €43.20 + VAT

This course provides an understanding of why BIM as Information Management is a fundamental requirement in delivering change within the AEC Industry.

2 CPD HOURS • 2 HOURS • 2 MODULES

BIM



#### BIM ISO 19650 Essentials – Online

~~€271.00~~ €216.80 + VAT

This online course provides an overview of information management using BIM as outlined in ISO 19650 parts 1 and 2.

12 CPD HOURS • 12 HOURS • 8 MODULES

BIM



#### BIM Level 2 Online Training Bundle

~~€434.00~~ €347.20 + VAT

This course combines two existing BRE Academy courses, fast tracking participants to a stage where they can consider BIM certification.

26 CPD HOURS • 26 HOURS • 28 MODULES

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 785155



ΔΩΡΕΑΝ!

35

Modules

6

Training Plans

INTUITIVE, INTERACTIVE and ENGAGING TRAINING PLATFORM FOR CONSTRUCTION

### BUILDING INFORMATION MODELLING

Building Information Modelling as a modern digital technology supporting sustainability targets of construction sector, has become a key requirement in the built environment, where all relevant information is created and managed through the lifecycle of a construction project. BIMcert assumes BIM as strategic for the future of construction.

<https://platform.energybimcert.eu/>

## BIMCERT TRAINING

**BIMCERT** provides an easily accessible portal for training the vast middle tier of construction industry supply chain professionals of all profiles.

The framework and materials supporting the portal will improve workers' BIM, sustainable construction and energy efficiency skills, thus leading to better collaborative working that guarantees energy efficient, sustainable buildings and increased quality throughout the entire construction supply chain.

## Τεχνολογία Μοντέλων Δομικών Πληροφοριών (BIM)



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 785155

COURSELIST

TRAINEE

TRAINER

<https://platform.energybimcert.eu/login/signup.php?types=none>

## TRAINING PLATFORM FOR THE DIGITAL CONSTRUCTION

# BIMcert, the right path for BIM training

BIMcert is a European wide project, funded by The European Union's Horizon 2020 research and innovation programme, under the Work Program for Clean, Secure and Efficient Energy, aimed at providing a training and qualification scheme for the skills required to support the implementation of BIM and energy efficiency across the construction supply chain.

**ΔΩΡΕΑΝ!**

### New account

REGISTER



**TRAINEE**

Register to have access to BIMcert Training courses and modules.



**TRAINER**

Register if you want to be part of BIMcert trainers community.

INTUITIVE, INTERACTIVE and ENGAGING TRAINING PLATFORM FOR CONSTRUCTION

BIMcert platform is based on the most advanced blended learning techniques, potentiating interaction with the user and encouraging participants in more self-guided learning.

<https://platform.energybimcert.eu/local/catalog/>