

BICZ / BISZ

Building Information Modelling (BIM) Advanced Modelling Course (Structure) - Revit

建築信息模擬進階課程(結構) - Revit

Participants will learn how to: 1. Create and manage various structural components according to common BIM practice in Hong Kong; 2. To develop a suitable analytical model for further structural analysis and collaborations; 3. To learn how to produce drawing for BD submissions and to carry out collaboration internally and externally with other disciplines in BIM work flow.

學習如何：1.根據香港建築信息模擬常規，創造和管理各種結構組件；2.製作合適的分析模型進行結構分析和協作；3.學習如何製作屋宇署入則圖紙，並在建築信息模擬工作流程中與其他界別進行內部和外部協作。

	<u>BICZ</u>	<u>BISZ</u>
Lecturer 講師	Professionals 專業人士	
Medium of Instruction 授課語言	Cantonese supplemented with English technical terms 廣東話輔以英文技術用語 Only English version of the course materials and computer software is used for teaching in class 本課堂以英文版本的教材及電腦軟件教學 Only English versions of assignments and examination papers will be used for assessment in class. 本課堂採用英文版本習作及考試卷作評核	
Mode of Attendance 授課形式	Part-time day course 日間部份時間制： 09:00-17:30	Part-time evening 夜間部份時間制： 19:00-22:00
Duration 授課期	7.5 hours x 4 sessions 7.5小時 x 4堂	3 hours x 10 sessions 3小時 x 10堂
Award of Certificate 證書頒發	1) Completion certificate - Attended 3.5 days or above, submitted course work and attained the passing requirements and passed the examination. 2) Certificate of attendance - Attended 3.5 days or above. 1) 結業證書 - 出席課程3.5天或以上，提交作業並達到要求及考試合格。 2) 出席證書 - 出席課程3.5天或以上。	1) Completion certificate - Attended 8 sessions or above, submitted course work and attained the passing requirements and passed the examination. 2) Certificate of attendance - Attended 8 sessions or above. 1) 結業證書 - 出席課程8堂或以上，提交作業並達到要求及考試合格。 2) 出席證書 - 出席課程8堂或以上。
Re-Exam 補考	The course offers only one re-exam opportunity. The fee for the re-exam is HK\$100. 課程僅提供一次補考機會，補考費用為港幣\$100元。	
Venue 上課地點	HKIC Kowloon Bay Campus, 44 Tai Yip Street, Kowloon Bay, Kowloon 九龍 九龍灣大業街 44 號香港建造學院九龍灣院校	
Admission Requirements 入學條件	Basic knowledge* with hands-on experience in Revit is required; Minimum 2 years structural engineering experience is preferable. Good command of English is required. 必須具備基本的Revit知識*及操作經驗。不少於2年結構工程經驗更佳。需具有良好英語水平。 *Please refer to CIC BIM Basic Modelling Course – Revit for information 詳情請參閱建築信息模擬基礎課程	
Course Fee 課程費用	\$3,280.00	
Enquiry 查詢課程	2100 9000 / 2100 9526	
Application Method 報名方法	BICZ / BISZ Please submit your online application through the course website. 請透過課程網站提交網上申請。	

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Course Content 課程內容

Start Structural project by integrating project data

- Link model with Copy and Monitor
- Import and Export CAD DataSpace

Modelling on Structural discipline

- Structural Wall
- Column
- Tapered Concrete Columns
- Floor
- Slabs on Composite Metal Deck
- Precast Hollow Core Slabs
- Structural Framing (Beams)
- Cranked Beams
- Beam System
- Structural Foundation
- Pile and Pile Caps
- Isolated Foundation
- Wall Foundation
- Slab Foundation (Raft)
- Trusses and Steel Connections
- Steel Bracing
- 3D reinforcement
- Staircases and Ramp

Structural Analysis

- Preparing Analytical Model
- Loads and Load Combinations
- Support (Fixed, Pinned, and Partial)
- Creating Loading Schedules
- Carry out structural analysis based on BIM model
- BIM Model linked with common Structural Analysis programs in Hong Kong

Create / customize Families (Structural)

- Systems Families
- Component Families
- In Place Families
- Shared Project Parameters
- Create a customize Column Family
- Create a customize Beam Family

Drawing Production

- From 3D to 2D Drawing productions
- Prepare GA, Structural Plan, Sections, and R.C. views for BD submissions using Revit

Model Standard (Structural)

- Understanding BIM Standards in Hong Kong
- Level of Development for Structural Elements

Collaborate with team

- Work sharing by using Workset
- Copy and monitor Cross discipline model
- Revision Tracking
- Legend
- Walk Through and Clash Detection by Naviswork
- Cloud Collaboration using BIM 360