

Digital Built Environment BIM Programme

Course Objectives

The objective of the course is to offer an advanced education programme on digital construction and BIM management using integrated design, construction and operation processes, with a strong focus on the collaborative practices that are the cornerstone of such integration. The learning programme combines the diversity of skills that is required to lead or join an organisation in the relevant fields, offering education in virtual construction through the involvement of experts from complementary fields (engineers, architects, quantity surveyors and others). Learners will gain top level knowledge on Building Information Modelling in a research-oriented environment, with close cooperation with industry technology experts and with a strong focus on problem solving. The course combines the recent advances in digital construction methods and development with practical activity in software applications.


Learning Outcomes

Upon successful completion of this course, learners will be able to:

- Demonstrate high level knowledge in the functional areas of digital construction management in the built environment.
- Understand the role and potential of Building Information Modelling for the industry.
- Be able to plan the use of BIM in construction projects and provide the right level of detail and comply legal and project collaboration requirements.
- Identify, describe and apply adequate modelling practices in view of intended uses for the models from design through to asset information management.
- Be able to assess interoperability issues in BIM Exchange from technical, semantic and organisational point of view.
- Understand how the Common Data Environment (as prescribed in ISO practices) can support other business processes such as contract management, tendering and eProcurement, BIM to Field.
- Being able to adapt BIM to estimating and construction management applications for the specialties of Quantity Surveying, Planning and Contractor Managers.
- Detail and apply the business processes impacted by BIM 4D, 5D and 6D and describe the digitalization approach in terms of workflows, data exchange mechanisms (incl. data management roles, data drops and system interfaces).

RUSHMORE BUSINESS SCHOOL

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STUDY MODE

Online and 2 hours of face-to-face tutorials per unit.

DURATION

72 Hours (12 Weeks of Learning Programme)

TUITION FEES (RS)

25,000

ENTRY REQUIREMENTS

HSC or equivalent

HOW TO APPLY

Complete and submit the attached application form along with:

- two passport photos,
- a copy of your national ID
- a copy of your birth certificate
- copies of all your academic transcripts and certificates
- an application fee of Rs 1000

Your application may be submitted in person at Rushmore Business School's Registry

or

You may send us a scanned or electronically-filled copy of your application (along with the relevant documents) at registry@rbs.ac.mu and settle the application fee via bank transfer.

This course is MQA approved and HRDC refundable according to eligibility.

Course Structure

Module 1

1. BIM Fundamentals (3 hours)
2. Software Fundamentals (3 hours)

Module 2

3. Digital Information Management (4 hours)
4. Common Data Environment Management (5 hours)

Module 3

5. BIM Protocol Management (12 hours)
6. BIM Coordinator / Manager (7 hours)

Module 4

7. Design Engineering Management (4 hours)
- 7.1 Architectural BIM Management (4 hours)
- 7.2 Civil & Structural Engineers BIM Management (4 hours)
- 7.3 MEP Engineer Management (4 hours)

Module 5

8. Contractors BIM Management (5 hours)
9. Quantity Surveyor BIM Management (5 hours)

Module 6

10. BIM Project Management (12 hours)

After each module, there is an assessment which shall be conducted, followed by certification.

