

# Graduate Certificate in Digitalization and Technology for Construction

To achieve Construction 4.0, the Building and Construction Authority (BCA) has embarked on a Construction Industry Transformation Roadmap to ready the industry for the future of the built environment. In this roadmap, Integrated Digital Delivery (IDD), Info-comm technologies (ICT) and other smart technologies will take centre stage in how we create, manage and interact with the built environment. This programme will cover techniques of data analytics, from building information modelling to digital twins, fundamentals of construction automation as well as the management of projects with construction technology.



## Eligibility

Applications are open to individuals with a Bachelor's degree with relevant professional experience.

## Application Period

For August intake, application starts in April.  
For January intake, application starts in October.

## Candidature Period

Maximum 2 years

## Award of Certificate

Upon completion of 12 units with a Grade Point Average (GPA) of at least 2.50 out of 5.00.

## Pathway to M.Sc.

Upon completion of Graduate Certificate programme, graduates with GPA  $\geq 3.00$  may apply for a relevant MSc programme, subject to approval by host Department. Courses are transferable to MSc, subject to terms and conditions.

## COURSES

*Each course carries 2 units.*

*To complete 12 units.*

CE5805A	Construction Productivity Analytics
CE5805B	Design for Manufacture and Assembly
CE5806A	Advanced Construction Planning & Control
CE5806B	Lean Construction
CE5807A	Digital Technologies for Construction
CE5807B	Integrated Construction Logistics
CE5808A	Virtual Design in BIM
CE5808B	Advanced Digital Construction

**For more details, visit:**

<https://cde.nus.edu.sg/cee/graduate/graduate-certificate-programmes/digitalization-and-technology-construction-digi/>

