



INTEGRATED WORK-STUDY DIPLOMA PROGRAMMES

Singapore's urban landscape is a sight to behold, with beautiful skyscrapers and iconic buildings. As the digital era rapidly evolves, we have done good work in striking a balance between urbanization, digitalization, climate change and preserving nature. This is not possible without the passionate people contributing towards making Singapore the city that we know today.

Do you aspire to play a part in shaping Singapore's urban future, to design and create world-class green and smart buildings, or to use digital technology to optimize the design and delivery of such buildings?

Find out more about the new BCA Academy's Diploma programmes which could be the pathways to your dream professions. Be part of Singapore's Future!



CONSTRUCTION

Maximising productivity with advanced construction technologies

Diploma in CONSTRUCTION ENGINEERING (DIGITAL)

Being Integrated Work-Study Diploma Programmes, students will spend half of the 3 years with leading Built Environment firms as part of their learning. This work-study format will give them a head start in their professional careers.



DESIGN

Creating Optimised and sustainable designs that meets regulatory requirements

Diploma in DIGITAL & SUSTAINABLE ARCHITECTURE



OPERATIONS

Utilising digital and intelligent tools to optimise and monitor building performance

Diploma in DIGITAL & SMART FACILITIES MANAGEMENT

BCA ACADEMY

DIPLOMA IN DIGITAL AND SUSTAINABLE ARCHITECTURE

What makes a building green? Is it possible to generate complex shapes with some strokes of the key (think Jewel or Sports Hub)? How do we make buildings useable or “friendly” for everyone? If you think you know these answers, think again. We'll take your understanding and challenge you further.

In the Diploma in Digital and Sustainable Architecture (DSA), you will learn the secrets to not only the design of a green building, but to also understand the environmental impact of that building through its lifetime (from cradle to grave). We'll also equip you with the digital know-how to create complex building shapes and forms, optimised to meet performance requirements, while ensuring they meet regulatory requirements.

CAREER PROSPECTS

- Architectural Assistants/Assistant Specialists (Digital Delivery)
- Sustainability Technologist
- Computational & Digital Designer

DIPLOMA IN CONSTRUCTION ENGINEERING (DIGITAL)

Singapore's construction industry is gearing up for a major make over!

Gone will be the traditional laborious method of building with sweat drenched designers & contractors peering over huge sheets of dirt-stained drawings and arguing loudly about defective works; while balancing on scaffoldings many stories above ground.

In comes the new digitalized method of building with designers & contractors calmly collaborating in a comfortable and safe meeting room, with projections of 3D models or digital twins of to-be built buildings, to iron out any discrepancies before the actual building is built.

The Diploma in Construction Engineering (Digital) has all the core engineering courses as well as the relevant digital skillsets that will transform Singapore's construction industry towards a more sustainable, productive and SMART industry.

Come join our DCE(D) program and be one of the critical role players in transforming our Singapore's construction industry.

CAREER PROSPECTS

- Assistant C&S Engineers/Assistant Engineer
- Assistant DfMA Designer/Engineer
- Construction Technologist (Digital)
- Resident Technical Officer

DIPLOMA IN DIGITAL AND SMART FACILITIES MANAGEMENT

Concerns on environmental issues and climate change have resulted in a global movement towards sustainable environment and smart buildings. Smart Facilities Managers are in demand for their expertise and technical skills to operate buildings efficiently and effectively, while ensuring comfort and wellbeing of the occupants.

The Diploma in Digital and Smart Facilities Management (DSFM) encompasses a wide range of technical and digital subjects from Internet of Things and technical facilities management through to data analytics and management in FM.

Don't hesitate...come and join us now in this exciting FM journey.

CAREER PROSPECTS

- Technical Executive / Facilities Executive
- Assistant Specialist (Digital Delivery)
- Assistant Smart Estate Manager / Assistant Smart Sustainability Manager
- Assistant Digital Asset Strategist



PROGRAMME HIGHLIGHTS

Digitalisation is a key enabler to transform Singapore to a smarter, greener and more liveable city. The Integrated Work Study Diploma Programmes, which have strong focus on digitalization applied through stages of a building's from design, construction to operations, will future-proof our graduates to take on the exciting roles to shape Singapore's future.

Special Features

- Integrated Work-Study Programme – work and earn an income while learning
- Opportunities to undergo work placement with leading firms in the Built Environment sector – enhancing students' employability
- Integrated and Interdisciplinary approach – allow students to build foundation in core disciplinary areas as well as broad understanding on related areas, so that they can take holistic approach to solve complex problems
- Digital and Sustainability-focus curriculum – allow students to develop emerging and in-demand skills
- Recognised professional qualifications – diploma qualification is recognised for RTO registration*/ Professional certification embedded into the programmes^

* for Diploma in Construction Engineering (Digital)

^ for Diploma in Digital and Sustainable Architecture and Diploma in Digital and Smart Facilities Management

PROGRAMME OBJECTIVES

The objectives of the programme are to equip graduates with skills and prepare them to:

- Demonstrate technical competency to adopt digitalization in the core discipline of architectural design/construction engineering/ smart facilities management.
- Integrate inter-disciplinary and cross-disciplinary knowledge and collaborate effectively with different stakeholders to achieve quality outcomes of the projects undertaken.
- Actively pursue lifelong learning and continuous development to be equipped for a changing world.

PROGRAMME STRUCTURE



PROGRAMME DETAILS

DIPLOMA PROGRAMMES	MINIMUM ENTRY REQUIREMENTS	FEES (per academic year incl. of GST)		
		Singapore Citizen	Permanant Resident	International Student
Programmes	GCE 'O' level Graduates			
<ul style="list-style-type: none"> • Digital and Sustainable Architecture • Construction Engineering (Digital) • Digital and Smart Facilities Management 	<ul style="list-style-type: none"> • 4 GCE 'O' levels • English Language (EL1) - Grade 1 to 7 • Mathematics - Grade 1 to 6 • Two relevant subject - Grade 1 to 6 	S\$3,000	S\$7,000	S\$13,000
	ITE graduates from relevant courses			
	<ul style="list-style-type: none"> • ITE graduates from relevant courses • Nitec with GPA ≥ 3 • Higher Nitec ≥ 1.5 			
	Existing working professionals looking for upgrade or career switch			
	Those with at least 3 years working experience and WPLN level 6 and above			

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