NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

College of Computing and Data Science

BACHELOR OF TECHNOLOGY IN COMPUTING
PART-TIME SKILLSFUTURE WORK-STUDY DEGREE

MOULDING THE FUTURE OF TECHNOLOGY
FOSTERING LEADERS, THINKERS, AND INNOVATORS

Be at the forefront of the AI revolution at the College of Computing and Data Science (CCDS). Be ready to challenge yourself to explore bold ideas and solve complex problems for the greater good. Be the innovator, the visionary, and the leader who shapes a better, more equitable future through technology.

Advance your IT career with the Bachelor of Technology in Computing, a part-time SkillsFuture Work-Study Degree (WSDeg).

Designed for working professionals, this programme empowers you to:

- Unlock new growth opportunities in IT
- Gain industry-focused, practical knowledge
- Enhance and validate your expertise
- Transition into impactful IT roles
- Study flexibly with minimal work disruption

DISCOVER THE CCDS DIFFERENCE

GLOBAL RECOGNITION FOR EDUCATIONAL EXCELLENCE

U.S. News & World Report Best Global Universities 2024

#2
for Artificial Intelligence

#2
for Computer Science

QS World University Rankings 2024

8th
for Data Science and Artificial Intelligence

9th
for Computer Science and Information Systems

TOP
20
in Computing on **Times Higher Education Rankings 2025**

TOP
10
Best AI And Data Science Undergraduate Programmes on **Forbes' 2021**

WORLD-CLASS LEARNING EXPERIENCE

Globally recognised expert faculty.

Cutting-edge, industry-relevant curriculum.

World-class research and learning facilities.

Experiential learning through competitions and projects.

Professional internships and industry attachments.

PROGRAMME OVERVIEW

The Bachelor of Technology in Computing follows a structured, three-tier, stackable model designed to support progressive learning and industry readiness. Students earn an Advanced Specialist Certificate upon completion of each of the first two stacks. The final stack, Industry Immersion, comprises full time On-the-Job Training (OJT) in the student's specialist area, an industry capstone project, and three Broadening and Deepening Electives (BDEs).

		PROGRAMME STRUCTURE			QUALIFICATION
1 YEAR	3. INDUSTRY IMMERSION STACK	• Full-time On-the-Job training (OJT) • Company-sponsored Final Capstone (by OJT company) • Broadening & Deepening Electives (BDEs) (school and/or industry training)			BACHELOR OF TECHNOLOLGY IN COMPUTING
1.5 YEARS	2. SPECIALIST STACK	Students must select **ONE** of the following			ADVANCED SPECIALIST CERTIFICATE IN SOFTWARE ENGINEERING or AI ENGINEERING or CYBERSECURITY
		SOFTWARE ENGINEERING	AI ENGINEERING	CYBERSECURITY	
1.5 YEARS	1. FOUNDATION STACK	CORE MODULES • Computer Design • Programming & Software Development • Operating Systems • Databases			ADVANCED SPECIALIST CERTIFICATE IN FULL-STACK DEVELOPMENT

ADMISSION CRITERIA

ACADEMIC

- Singapore-Cambridge GCE A-Levels
- Polytechnic Diploma or equivalent institutions
- NUS High School (NUSHS) Diploma
- International Baccalaureate (IB) Diploma
- Other recognised qualifications

PRE-REQUISITE

- Successful completion of the following bridging modules:
  - Linear Algebra & Calculus for Computing
  - Discrete Mathematics for Computing
  - Probability & Statistics for Computing
  - Introduction to Computational Thinking and Programming
  - Introduction to Computer Systems

These bridging modules are carefully curated to enhance foundational knowledge and prepare students for the academic rigour of a computing degree. It allows applicants to evaluate their readiness for the Bachelor of Technology in Computing programme, ensuring a well-informed transition into a professional computing career.

ADDITIONAL REQUIREMENTS

- At least 21 years of age as at 31 July of admission year AND
- At least **TWO** years full-time working experience OR
- Currently engaged in full-time employment* OR
- Completed full-time National Service**

*Part-time employment will not be considered as full-time working experience. Applicants who are self-employed may be required to submit additional documents for evaluation and verification.
**Full-time NSmen (NSF) are not eligible for disruption of service to pursue this part-time degree programme.

EXEMPTIONS

Applicants who are younger than 21, or who do not have two years of full-time working experience may be granted exemptions if they are either:

a. Company sponsored OR
b. Currently employed in an IT related job role/ sector.

CAREER PROSPECTS

Graduates of the Bachelor of Technology in Computing (WSDeg) programme are equipped with industry-relevant skills, opening doors to diverse and rewarding career opportunities in the tech sector.

Key Career Opportunities:
- AI/ML Engineer
- Cyber Risk Analyst
- Data Engineer
- Full Stack Developer
- Security Engineer
- Software Engineer

Join NTU's College of Computing and Data Science and be the **INNOVATOR**, the **VISIONARY**, and the **LEADER** you are meant to be!

CONNECT WITH US

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