

Master of IT in Business

Master Your Future

ARTIFICIAL INTELLIGENCE

DIGITAL TRANSFORMATION

DATA SCIENCE & ANALYTICS

CYBERSECURITY

FINANCIAL TECHNOLOGY & ANALYTICS

Shauna Loh
AI Scientist
SAP

Wong Yew Hoong
Senior Assistant Director
(National Cyber Threat
Monitoring Centre)
Cyber Security Agency
of Singapore

Gabriella Pauline Djojosaputro
Senior Data Scientist
Shift Technology

Ravish Khanna
Director - Business Solutions &
Change Management
BNP Paribas

POSTGRADUATE

Michelle Cheong Lee Fong

Professor of Information Systems (Education)
Associate Dean, SCIS Postgraduate
Professional Education
Director, Doctor of Engineering
School of Computing and Information Systems (SCIS)
Singapore Management University

**MESSAGE FROM THE
ASSOCIATE DEAN**

At the School of Computing and Information Systems (SCIS), we are proud to offer a forward-looking, practice-driven, and research-grounded education that empowers professionals to thrive at the intersection of technology and business.

Since its launch in 2007, the Master of IT in Business (MITB) programme has continually evolved in response to global technology trends and industry needs. What began with a focus on Financial Services has expanded into five distinct tracks – each designed to meet the growing demands of the digital economy.

Our Data Science & Analytics (DSA) track launched as the first Analytics master’s programme in Asia, develops professionals with deep expertise in data science and data analytics to support strategic decision-making across sectors. Our Artificial Intelligence (AI) track goes even further, training professionals to build intelligent systems and apply AI techniques to solve complex problems. Our Digital Transformation (DT) track equips graduates with a blend of ICT knowledge and skills to strategise and execute digital transformation successfully in complex organisations in a rapidly changing environment. Our Financial Technology and Analytics (FTA) track continues to support talent development in the fast-growing Fintech and financial services sectors.

The new Cybersecurity (CYB) track addresses the critical need for professionals who can manage cyber risks and implement security solutions while supporting broader business goals. With a strong foundation in technical and management skills, and leadership development, the track is designed to prepare the next generation of cybersecurity professionals.

Through strong industry partnerships, applied learning experiences with opportunities to take on a practical internship or capstone project, and exposure to cutting-edge research, MITB graduates are poised to take on dynamic roles in a rapidly changing world.

We welcome you to join our MITB programme.

CLASS PROFILE

Discover the calibre of peers you’ll be networking with.



Download
Employment
Report



Average
GMAT
625



International
Students
47%



Average Years of
Working
Experience
4.1



Typical Age
Range
22 - 32



Total
Nationalities
14

Student profiles taken from 2025
August Intake (Full-time & Part-time)



**GRADUATES’
EMPLOYABILITY**

9 in 10 Employed within
6 months of graduation

**Graduates’ employability data is based on survey conducted for MITB students who filed for graduation in 2024.*

ACADEMIC BACKGROUND



Business/
Finance
36%



Computing
13%



Arts & Social
Science
5%



Engineering
33%



Science
13%

Student profiles taken from 2025
August Intake (Full-time & Part-time)

MITB SPECIALISATION TRACKS



CYBERSECURITY

NEW

In an era where digital threats are escalating in both frequency and sophistication, the importance of robust cybersecurity measures has never been more critical. From ransomware attacks targeting critical infrastructure to sophisticated phishing schemes exploiting human vulnerabilities, the digital landscape is fraught with challenges that demand a new breed of cybersecurity professionals. The Cybersecurity (CYB) track is meticulously designed to address this pressing need. By integrating advanced technical training with strategic business and leadership acumen, the programme equips students with essential skills to navigate complex cybersecurity challenges while aligning security initiatives with overarching business objectives.



Examples of job roles include (but not limited to):

Cyber Risk Specialist	Cybersecurity Architect	Cybersecurity Operations Specialist
Security Engineer	Penetration Testing Specialist	Threat Analyst



ARTIFICIAL INTELLIGENCE

Artificial Intelligence (AI) is poised to reshape industries and revolutionise the way we interact with technology. Governments and businesses alike are leveraging AI to tackle societal and industrial challenges. Designed in response to these dynamic trends, the Artificial Intelligence Track is dedicated to nurturing the next generation of AI leaders. You will master the art of constructing AI tools and deploying adaptive closed-loop solutions for multifaceted business complexities.

Examples of job roles include (but not limited to):

AI Scientist	AI Solution Architect	Algorithm Engineer
Data Scientist	Machine Learning Engineer	



DATA SCIENCE & ANALYTICS

In today's data-driven world, the strategic power of data analytics and data science is undeniable and the demand for professionals skilled in harnessing data to solve complex challenges is on the rise. The Data Science & Analytics (DSA) track is designed to equip you with strong problem-solving skills, technical concepts, methodologies, and industry best practices, enabling you to translate data-driven insights and data science models into crucial impactful decisions. Through hands-on experience with real-world use cases and practicum projects, you will master the science and art of data science and analytics and become a driving force behind informed decision-making and strategic success.

Examples of job roles include (but not limited to):

Business Analyst	Consultant	Data Analyst
Data Engineer	Data Scientist	Product Manager



DIGITAL TRANSFORMATION

Digital Transformation harnesses advanced digital technologies and innovative strategies to reshape industries. It explores how, by integrating these technologies, businesses can elevate customer experiences, streamline operations and unlock new growth opportunities. In the Digital Transformation (DT) track, you will gain a robust understanding of digital tools and frameworks while building the critical skills needed to drive organisation-wide transformation.

Examples of job roles include (but not limited to):

Digital Business Consultant	Digital Change Management Specialist	Business Intelligence Manager
Digital Innovation Manager	Digital Product Analyst/Manager	Business Enterprise Architect



FINANCIAL TECHNOLOGY & ANALYTICS

In a rapidly evolving financial landscape, fintech and digital finance are driving innovation across financial institutions. As the 4th globally ranked financial centre, Singapore is revolutionising digital banking and fintech. Our Financial Technology & Analytics (FTA) track graduates are highly sought after by financial, consulting and tech companies. The FTA track equips you with essential knowledge and skills to navigate the convergence of financial technology, analytics, and management, Exposing you to fintech fundamentals such as digital banking, blockchain technology, while also immersing you in emerging trends such as Web3, digital currencies, and regulatory technology.

Examples of job roles include (but not limited to):

Banking & Financial Digital Transformation Specialist	Digital Banking Analyst/Consultant	Digital Product Manager
Fintech Product Specialist/Founder	Investment/Treasury Tech Specialist	Risk & Compliance Management Specialist

ARTIFICIAL INTELLIGENCE



Shauna Loh

AI Scientist
SAP



Watch her
video

DATA SCIENCE & ANALYTICS



Aishwarya Krishna Prasad

Senior Data Scientist
Singapore Airlines



Watch her
video

DIGITAL TRANSFORMATION



Michael Kevin Wiratama Djohan

Director of Advanced Process
and Innovation
Evonik



Watch his
video

FINANCIAL TECHNOLOGY
& ANALYTICS



Joanna Teo

Founder
Attribute Data



Watch her
video

ADMISSIONS CRITERIA

- A good GMAT/GRE/SMU Admission Test score. (SMU’s GMAT Code: F8D-Z4-61 & GRE Code: 2861)
- IELTS/UKVI (Academic)/TOEFL is required for applicants whose Bachelor’s/Master’s/PhD Degree programme was not taught in English.
- Applicants from all degrees are encouraged to apply.
- Preferably 2 years of work experience for Cybersecurity track applicants.

PERIOD OF CANDIDATURE

The Master of IT in Business is a rigorous programme with 2 modes of study:

- Full-Time** Normal Candidature Duration 1.5 years (Min. 1 year, Max. 2 years)
- Part-Time** Normal Candidature Duration 2.5 years (Min. 2 years, Max. 4 years)

PROGRAMME CALENDAR

There are two intakes each year, in August and January.

AUGUST INTAKE

TERM	AUG-NOV	NOV-DEC*	JAN-APR	APR-JUL	JUL-AUG*	AUG-NOV	NOV-DEC*	JAN-APR	APR-JUL
12 Months (Full-Time)	4CUs	4CUs		4CUs					
		Internship/Capstone Project (2CUs)*							
	Postgraduate Professional Development Course (1CU)								
16 Months (Full-Time)	4CUs	3CUs		3CUs	2CUs				
		Internship/Capstone Project (2CUs)*							
	Postgraduate Professional Development Course (1CU)								
24 Months (Part-Time)	2CUs	2CUs		2CUs	2CUs	2CUs	2CUs	2CUs	2CUs
				Capstone Project (2CUs)*					
	Postgraduate Professional Development Course (1CU)								

JANUARY INTAKE

TERM	JAN-APR	APR-JUL	JUL-AUG*	AUG-NOV	NOV-DEC*	JAN-APR	APR-JUL	JUL-AUG*	AUG-NOV
12 Months (Full-Time)	4CUs	4CUs	4CUs						
		Internship/Capstone Project (2CUs)*							
	Postgraduate Professional Development Course (1CU)								
16 Months (Full-Time)	4CUs	3CUs	3CUs	2CUs					
		Internship/Capstone Project (2CUs)*							
	Postgraduate Professional Development Course (1CU)								
24 Months (Part-Time)	2CUs	2CUs	2CUs	2CUs	2CUs	2CUs	2CUs	2CUs	2CUs
			Capstone Project (2CUs)*						
	Postgraduate Professional Development Course (1CU)								

[^] Internships are to be completed over a 6-month period (typical cycles: Jan to Jun, May to Nov) and Capstone Projects are to be completed over two terms.
^{*} Nov to Dec and Jul to Aug are special terms and they are optional.

MITB CURRICULUM

GRADUATION REQUIREMENTS

Students are required to complete and pass a total of 15 Course Units (CUs) with a minimum cumulative Grade Point Average (CGPA) of 2.5 to graduate with the MITB degree.

	ARTIFICIAL INTELLIGENCE (AI)	CYBERSECURITY (CYB)	DATA SCIENCE & ANALYTICS (DSA)	DIGITAL TRANSFORMATION (DT)	FINANCIAL TECHNOLOGY & ANALYTICS (FTA)
POSTGRADUATE PROFESSIONAL DEVELOPMENT COURSE (1 CU)	4 Workshop Topics During Candidature Period				
PROGRAMME CORE (3 CUs)	• Spreadsheet Modelling for Decision Making		• Statistical Thinking for Data Science	• Computational Thinking with Python	
TRACK CORE (4 CUs)	Algorithm Design & Implementation	Cybersecurity Technology & Applications	Data Analytics Lab	Digital Transformation Strategy	Digital Banking & Trends
	AI & Uncertainty Reasoning*	Strategic Cybersecurity Management	Data Science for Business*	Digital Organisation & Change Management	Fintech Innovations & Startups*
	Applied Machine Learning*	Threat Intelligence & Incident Response	Applied Machine Learning*	Agile & DevSecOps	Digital Payments & Innovation
	Query Processing & Optimisation	AI-Driven Security Analysis	Query Processing & Optimisation	(digital) Product Management	RiskTech & RegTech
TRACK ELECTIVES (3 CUs)	Choose 3 AI electives	Choose 3 CYB electives	Choose 3 DSA electives	Choose 3 DT electives	Choose 1 FinTech and 2 DSA electives
OPEN ELECTIVES (4 CUs)	Choose any 4 CUs from the following*:	• Internship or Capstone Project (2 CUs)	• Courses from any series in the MITB curriculum	• Courses from other SMU Master Programmes or Shared Electives (up to 2 CUs)	

The MITB curriculum has its courses classified into the following series:

 **ARTIFICIAL INTELLIGENCE (AI)**

- Algorithm Design & Implementation
- Deep Learning for Visual Recognition*[†]
- Machine Learning Engineering*^{††}
- Query Processing & Optimisation
- Multi-Agent Systems*
- Prompt Engineering for LLMs (0.5 CU)

- AI & Uncertainty Reasoning*
- Natural Language Processing for Smart Assistants*
- Generative AI with Large Language Models*
- Agentic AI for Intelligent Autonomy (0.5 CU)
- AI Planning & Decision Making*[†]

- Applied Machine Learning*
- Recommender Systems*
- AI System Evaluation*[†]
- Human-AI Interaction Design (0.5 CU)
- Introduction to Reinforcement Learning*
- AI Translational Research Seminar[§] (Without credit)

 **CYBERSECURITY (CYB)**

- Cybersecurity Technology & Applications
- AI-Driven Security Analysis
- Agile & DevSecOps

- Strategic Cybersecurity Management
- Cloud Security
- AI System Evaluation*[†]

- Threat Intelligence & Incident Response
- Enterprise Cryptography

 **DATA SCIENCE & ANALYTICS (DSA)**

- Applied Data Science for Customer Insights (SMU-X)
- Data Management
- Big Data: Tools & Techniques
- Applied Data Science in Social Networks
- Prompt Engineering for LLMs (0.5 CU)

- Generative AI with Large Language Models*
- Data Analytics Lab
- Data Science for Business*
- Visual Analytics & Applications
- Applied Data Science in Healthcare (0.5CU)

- Applied Data Science in Operations
- Query Processing & Optimisation
- Applied Machine Learning*
- Geospatial Analytics & Applications
- Text Analytics & Applications

 **DIGITAL TRANSFORMATION (DT)**

- Digital Transformation Strategy (SMU-X)
- (digital) Product Management
- Digital Enterprise Architecture
- IT Project & Vendor Management
- Sustainable IT Systems & Practices (0.5 CU)

- Digital Organisation & Change Management
- Experimental Learning & Design Thinking
- Agile & DevSecOps
- Digital Technologies & Sustainability (0.5 CU)

- Global Sourcing of Technology & Processes
- Digital Governance & Risk Management
- Digitalisation & Process Innovation
- Business Applications of Digital Technology

 **FINANCIAL TECHNOLOGY & ANALYTICS (FINTECH)**

- Digital Banking & Trends
- Fintech Innovations & Startups*
- Corporate & Consumer Financial Technology
- Tokenised Assets & NFTs (0.5 CU)

- Data Science in Financial Services*
- Financial Markets Systems & Technology
- Digitalised Currencies & CBDCs (0.5 CU)

- RiskTech & RegTech
- Digital Payments & Innovations
- Quantum Computing in Financial Services*

Courses in the Tech and Practicum series are open to students in all tracks

 **INFORMATION TECHNOLOGY MANAGEMENT (TECH)**

- Cybersecurity Technology & Applications
- Global Sourcing of Technology & Processes
- Blockchain Technology
- IoT: Technology & Applications

- Modern Software Solution Development
- Spreadsheet Modelling for Decision Making
- IT Project & Vendor Management
- Web3 Fundamentals

- Business Applications of Digital Technology
- Computational Thinking with Python
- Statistical Thinking for Data Science
- Low Code Application Development

 **PRACTICUM**

- Internship (2 CUs)

- Capstone Project (2 CUs)

Students with CGPA of 3.0 and above may choose to cross-enrol up to two (2 CUs) pre-approved SCIS PhD courses and count towards MITB graduation requirements as track electives or open electives.
^{*A prerequisite or corequisite course is required.}
^{†These courses are not available to students in their first term of study. As a result, some full-time students may need to extend their studies in order to read them. Only students who have received special exemptions are permitted to take these courses in their first term.}
^{§The AI translational Research Seminar is a graduation requirement (without credit) for AI track students. Course modules listed are subject to change.}



APPLICATION DETAILS

We offer two application periods each year.

APPLICATION PERIOD	INTAKE
1 st January to 31 st May	August
1 st June to 31 st October	January the following year

SCHOLARSHIPS AND FINANCIAL ASSISTANCE

Our MITB programme offers a diverse range of scholarships and awards, tailored to support various tracks within the programme. To learn more about these opportunities, please visit: <https://smu.sg/mitbscholars>

PROGRAMME FEES

The current fees for the programme are:

FEES	AMOUNT
Application	S\$100 (inclusive of GST)
Registration	Singapore Citizens & Permanent Residents S\$400 (inclusive of GST) Foreigners S\$500 (inclusive of GST)
Tuition	Please refer to the programme website for the prevailing tuition fees.

**Tuition fees are locked in once the student matriculates into the programme. SMU reserves the right to alter tuition and other fees as deemed appropriate.*



Join our
events



Apply now



Discounts
calculator

SMU - IN THE HEART OF SINGAPORE, IN THE HEART OF ASIA

In the dynamic, cosmopolitan hub that is Singapore, you will find a vibrant city-state that pulses with the diversity of both East and West. Situated at the crossroads of the world, Singapore is home to multinational companies and thousands of small and medium-sized enterprises flourishing in a smart city renowned for its business excellence and connectivity. With its strong infrastructure, political stability and respect for intellectual property rights, this City in a Garden offers you unique opportunities to develop as a global citizen.

Tapping into the energy of the city is a university with a difference– the Singapore Management University. Our eight schools: School of Accountancy, Lee Kong Chian School of Business, School of Computing and Information Systems, School of Economics, Yong Pung How School of Law, School of Social Sciences, College of Graduate Research Studies and College of Integrative Studies, form the country's only city university campus, perfectly sited to foster strategic links with businesses and the community.

SMU generates leading-edge research with global impact and produces broad-based, creative and entrepreneurial leaders for a knowledge-based economy. Discover a multi-faceted lifestyle right here at SMU, in the heart of Singapore.



THE SMU MASTERS ADVANTAGE



GLOBAL RECOGNITION

SMU is globally recognised as one of the best specialised universities in Asia and the world. Its research rankings, programme rankings, accreditations and professional recognition are testaments to its achievements and standing.



INTERACTIVE PEDAGOGY

SMU's interactive, seminar-style pedagogy brings you stimulating, multidisciplinary learning under the mentorship of the thought leaders and subject experts who make up our faculty. Ou will hone your analytical thinking, teamwork, and communication skills.



INNOVATIVE CURRICULUM

Stay relevant with courses that combine cutting-edge research and up-to-date knowledge with best business practices. SMU's Postgraduate Professional Development Course and award-winning Asian case studies help you approach topics from different practical perspectives for greater insights.



NETWORKING AND CAREER OPPORTUNITIES

SMU has a diverse student population from many different countries, bringing equally diverse personal and professional experience into your network. Take advantage of comprehensive guidance from our dedicated career services to aid your career transition or advancement.



CITY CAMPUS

SMU is nestled within the arts and heritage precinct, right next to the Central Business District, with unrivalled connectivity for public transport and multiple amenities around campus. Discover how life beyond the classroom is as enriching as within.



For a full listing of SMU Masters programmes, visit masters.smu.edu.sg/programmes



Singapore Management University
School of Computing and Information Systems 2
90 Stamford Road Singapore 178903

 smu.edu.sg/mitb   SMUMITB

 SMUPGPP  mitb@smu.edu.sg