LEADING INTELLIGENT BUSINESS TRANSFORMATION

Master of IT in Business

Master Your Future



School of Computing and Information Systems

Gabriella Pauline Djojosaputro Data Scientist, Shift Technology

ARTIFICIAL

AL TECHNOLOGY

FINA

DIGITAL TRANSFORMATION

0

ANALYTICS

POSTGRADUATE



CUTTING-EDGE CURRICULUM

We constantly update our curriculum to align with market trends and technology advancements, ensuring you learn the most current and relevant knowledge and skills.

2 PRACTICAL EXPERIENCE

Gain real-world experience through internships, capstone projects, and SMU-X courses, allowing you to apply what you've learned and develop valuable life skills.

B INDUSTRY CONNECTIONS

Our industry partners not only provide valuable feedback on our curriculum to ensure relevance and practicality, but also offer networking opportunities, internships, and industry seminars to our students.

WORLD-CLASS FACULTY

Learn from experienced faculty who bring a wealth of knowledge and experience from diverse industries, enabling you to gain insights from real-world scenarios.

MESSAGE FROM THE ASSOCIATE DEAN



The School of Computing and Information Systems (SCIS) at SMU, with our distinctive blend of practice, research and education, leads the way in the areas of Fintech, Analytics, Artificial Intelligence, and Digital Transformation.

The launch of the Master of IT in Business (MITB) programme with specialisation in Financial Services in August 2007 marked the birth of a unique programme. This programme focuses on training IT professionals in Financial Technology, Operations, Processes and Systems in different banking businesses. The recent growth of interest in Fintech and Analytics reaffirms our belief that our Financial Technology & Analytics (FTA) track will train talents to bring the banking industry to new heights.

Our Analytics (AT) track launched in January 2011 is the first in Asia. It develops a new breed of IT professionals with skills and in-depth knowledge in data analytics for different industries. Our Artificial Intelligence (AI) track goes even further, training professionals who are able to build AI tools and implement algorithms to solve complex problems. Our new track in Digital Transformation (DT) equips graduates with the blend of ICT knowledge and skills to strategise and execute digital transformation successfully for a complex organisation in a rapidly changing environment.

Apart from practical internships and capstone project opportunities with our industry partners, our state-of-the-art research labs constantly provide cutting-edge research topics for our curriculum, so that our students are not only trained for the present, but also the future.

We welcome you to join our MITB programme.

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



#2 in Asia 2024

QS BUSINESS MASTERS RANKINGS: BUSINESS ANALYTICS

MITB SPECIALISATION TRACKS

Graduates from the SMU Master of IT in Business are highly sought after by employers and are in high demand in numerous sectors. Here are some career roles that our graduates can look forward to or have taken on:



GRADUATION REQUIREMENTS

graduate with the MITR degree

	FINANCIAL TECHNOLOGY & Analytics (FTA)	ANALYTICS (AT)	ARTIFICIAL INTELLIGENCE (AI)	DIGITAL TRANSFORMATIO (DT)
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)	Digital Banking & Trends	Data Analytics Lab	Algorithm Design & Implementation	Digital Transformation Strate
	Fintech Innovations & Startups*	Data Science for Business*	Introduction to Artificial Intelligence*	Digital Organisation & Change Management
	Digital Payments & Innovation	Applied Machine Learning*	Applied Machine Learning	Agile & DevSecOps
	RiskTech & RegTech	Query Processing & Optimisation	Query Processing & Optimisation	(digital) Product Manageme
TRACK ELECTIVES (3 CUs)	Choose 1 Fintech and 2 Analytics electives	Choose 3 Analytics electives	Choose 3 AI electives	Choose 3 DT electives
OPEN ELECTIVES (4 CUs)	Choose any 4 CUs from the following ² : • Internship or Capstone Project (2 CUs) • Courses from any series in the MITB curriculum • Courses from other SMU Master Programmes (up to 2 CUs)			

THE MITB CURRICULUM

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

FINANCIAL Technology (Fintech)	Digital Banking & Trends	 Data Science in Financial Services* 	Digital Payments & Innovations
	Fintech Innovations & Startups*	 Quantum Computing in Financial Services* 	RiskTech & RegTech
	 Corporate & Consumer Financial Technology Web 3.0 in Tokenised Assets & NFTs (0.5 CU) 	Financial Services Financial Markets Systems & Technology	Web 3.0 in Digitalised Currencies & CBDCs (0.5 CU)
	Data Management	Data Analytics Lab	Text Analytics & Applications
ANALYTICS Technology	Computational Thinking with PythonBig Data: Tools & Techniques	 Customer Analytics & Applications (SMU-X) 	 Applied Machine Learning* Statistical Thinking for Data Science
& APPLICATIONS	Social Analytics & Applications	 Visual Analytics & Applications 	Geospatial Analytics & Applications
(ANALYTICS)	Data Science for Business*	 Query Processing & Optimisation 	Operations Analytics & Applications
	Applied Healthcare Analytics (0.5 CU)	 Prompt Engineering for LLMs (0.5 CU) 	
ARTIFICIAL INTELLIGENCE & APPLICATIONS (AI)	Introduction to Artificial Intelligence	 Machine Learning Engineering^{*†} 	 Multi-Agent Systems^{*†}
	 Deep Learning for Visual Recognition⁺ AI Planning & Decision Making⁺ 	Algorithm Design & Implementation	 AI System Evaluation^{*†}
		Natural Language Processing for	Recommender Systems*
	Introduction to Reinforcement Learning	Smart Assistants*	Al Translational Research Seminar*
	Prompt Engineering for LLMs (0.5 CU)	Applied Machine Learning*	(Without credit)
	Agile & DevSecOps	Digital Enterprise Architecture	Experimental Learning & Design Thinking
DIGITAL	Digitalisation and Process Innovation	Digital Organisation & Change Management	Design Thinking
TRANSFORMATION (DT)	 Business Applications of Digital Technology 	Change Management Digital Transformation 	 Digital Governance & Risk Management
	Digital Technologies and	Strategy (SMU-X)	(digital) Product Management
	Sustainability (0.5 CU)		
	Courses in the Tech and Pra	cticum series are open to students in all	tracks
INFORMATION TECHNOLOGY Management (TECH)	Cybersecurity Technology & Applications	Blockchain Technology	IT Project & Vendor Management
	Global Sourcing of Technology & Processes	Spreadsheet Modelling for Decision Making	Business Applications of Digital Technology
	Modern Software Solution Development	IoT: Technology & Applications	 RPA for Business Applications (0.5 Cl
PRACTICUM	Internship (2 CUs)	Capstone Project (2 CUs)	

* A pre-requisite course is required.

1 These courses cannot be taken in students' first term of study. As a result, some full-time students may need to extend to their fourth term of study in order to read these courses. Only students with special exemptions can be allowed to read these courses in their first term of study. ⁹ The AI Translational Research Seminar is a graduation requirement (without credit) for AI track students. Course modules listed are subject to change.

Students must complete and pass a total of 15 Course Units (CUs) with a minimum cumulative Grade Point Average (GPA) of 2.5 to

FINANCIAL TECHNOLOGY & ANALYTICS

The MITB programme has significantly enhanced my skill set in strategic thinking, data analysis, and technology management, providing me with specialised knowledge for applying holistic technology solutions in the financial services industry. This expertise has bolstered my qualifications for leadership positions within my organisation. Moreover, MITB facilitated my transition from a purely technical role to a business transformation-focused role. Completing the MITB programme successfully has boosted my confidence, allowing me to take on more challenging leadership roles, pursue ambitious goals, and navigate the complexities of the financial industry with a greater sense of self-assurance.

Ravish Khanna Director, Business Change & Transformation BNP Paribas Wealth Management

Watch his video





During my internship at UOB Asset -Management, I had the privilege to work as a Data Scientist and contribute to end-to-end data science projects. This opportunity allowed me to develop my skills in data gathering, data wrangling, feature engineering, model training, hyperparameter tuning, presenting insights to users, and even user interface development. It was gratifying to apply the knowledge and skills learned from MITB to solve real-world problems and deliver effective solutions that were later implemented by users within the organisation. Beyond the technical knowledge, SMU's interactive teaching approach and emphasis on practical applications have also enhanced my soft skills, contributing to my growth as a well-rounded data scientist.

Gabriella Pauline Djojosaputro Data Scientist, Shift Technology

Watch her video



CLASS PROFILE Discover the profile of great minds

you could be networking with.

O Typical

Average GMAT

670

Age Range

22-33^{ng} and

stems 1

Students 42%

International

Total Nationalities 15

Average Years of Work Experience 5.0

Student profiles taken from Classes of 2022-2023 (Full-time & Part-time)



Download Employment



*Graduates' employability data is based on survey conducted for MITB students who filed for graduation in 2022.

ACADEMIC BACKGROUND



Business/Finance 34[%]



Engineering









14[%]



Student profiles taken from Classes of 2022-2023 (Full-time & Part-time)

SMU's experienced professors and instructors played a crucial role in helping me excel in my studies. Assistant Prof Dai Bing Tian's ability to simplify complex concepts and his Algorithm Design module was key in building my technical foundation. I enjoyed the Recommender Systems module where I worked on a group project that involved building and deploying a multimodal recommendation engine. This engine was designed to suggest good coffee joints based on factors like price, location, and online reviews. As a coffee enthusiast, I was elated that I could make use of the recommendations for my coffee hunts. Designing practical solutions that can benefit the public gives me a great sense of fulfilment.

Loh Si Jun, Shauna Data Scientist, OCBC Al Lab

Watch her video



DIGITAL TRANSFORMATION

I chose the MITB Digital Transformation track to acquire skills and knowledge for supporting change in organisations. SMU's seminar style classes helped me step out of my comfort zone and be involved in group discussions and rich exchanges of ideas with my professors and course mates. Through the MITB experience, I have honed my business acumen and am more confident when communicating digital solutions to the C-suite and implementing effective cybersecurity strategies in my day-to-day job.

Wong Yew Hoong Senior Assistant Director, Cyber Security Agency of Singapore (CSA)





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 in a business or technology role for all track applicants.

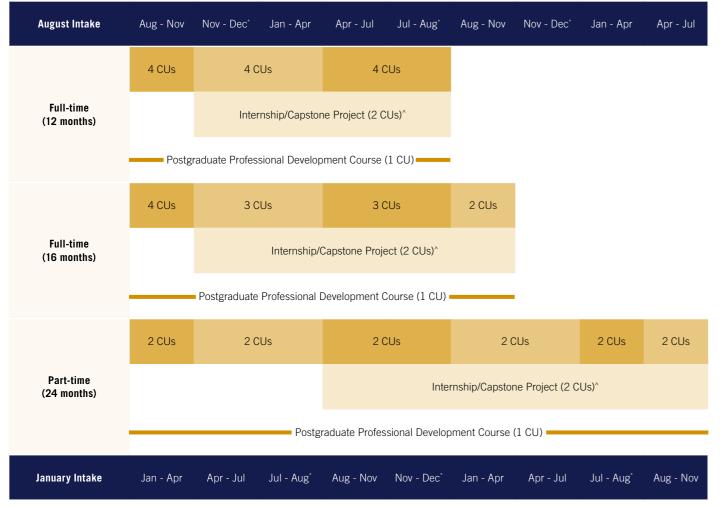
PERIOD OF CANDIDATURE

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

	Period of Candidature		
	Minimum	Normal	
Full-time	1 year	1.5 years	
Part-time	2 years	2.5 years	

PROGRAMME CALENDAR

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



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

APPLICATION DETAILS

We offer two application periods each year. For the August intake, we welcome applications from 1st January to 31st May, and for the January intake, applications are accepted from 1st June to 31st October.

Application Period

January to May

June to October

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
	Application
Singapore Citiz	Registration
Please refer to the programm	Tuition*
the student enters the programme SMU reserves the	* Tuition fees are locked in once



Intake	
August	
January the following year	

Amount

S\$100 (Inclusive of GST)

zens & Permanent Residents S\$400 (inclusive of GST) Foreigners S\$500 (inclusive of GST)

ne website for the prevailing tuition fees. https://smu.sg/mitbprogfees

Tuition fees are locked in once the student enters the programme. SMU reserves the right to alter tuition fees for new incoming cohorts when required.



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, College of Graduate Research Studies, College of Integrative Studies, Yong Pung How School of Law, and School of Social Sciences, 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. You will hone your analytical skills, teamwork and communication skills.

INNOVATIVECURRICULUM



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 fin /SMUMITB SMUPGPP Mitb@smu.edu.sg

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