Master of IT in Business

Leading Intelligent
Business Transformation

SMU
SINGAPORE MANAGEMENT
UNIVERSITY

ANALYTICS

ARTIFICIAL INTELLIGENCE

FINANCIAL TECHNOLOGY & ANALYTICS

Jordan Lim
MITB (Financial Technology & Analytics)
Consultant, Oliver Wyman

**SCHOOL OF
INFORMATION SYSTEMS**

Message from the Associate Dean

> **"** We will not rest on our laurels and will continue to innovate based on our fullest understanding of the types of IT professionals that businesses in various industries yearn for. **"**

The School of Information Systems (SIS) at SMU, with our distinctive blend of practice, research and education, leads the way in the areas of Financial Services Technology, Operations, Processes & Systems (TOPS), and Business, Consumer & Social Analytics.

The launch of the Master of IT in Business (MITB) programme with specialisation in Financial Services (FS) in August 2007 marked the birth of a unique programme. This programme focuses on training IT professionals in TOPS in different banking businesses. The recent growth of interest in Financial Technology (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 track launched in January 2011 is the first in Asia. It develops a new breed of IT professionals with the skills and in-depth knowledge for industries ranging from retail, healthcare, logistics and government, to telecommunications, transport and banking. Our new track in Artificial Intelligence (AI) goes even further, training students who are able to build AI tools and implement algorithms to solve business problems. 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.

Over the years, the MITB programme has grown from strength to strength. We will not rest on our laurels but continue to innovate, exploiting our fullest understanding of the types of IT professionals that businesses in various industries yearn for. We welcome you to join an exciting programme that will heighten your potential.

Michelle Cheong Lee Fong
Professor of Information Systems (Education)
Associate Dean, SIS Postgraduate Professional Education
School of Information Systems (SIS)
Singapore Management University

SMU – Right in the Heart of Asia's Hub, Singapore

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 cross-roads 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 six schools: the School of Accountancy, Lee Kong Chian School of Business, School of Economics, School of Information Systems, School of Law, and School of Social Sciences form the country's only city campus, perfectly sited to foster strategic links with businesses and the community.

Modelled after the University of Pennsylvania's Wharton School, 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 MITB Curriculum

FINANCIAL TECHNOLOGY (FINTECH)	• Digital Banking & FinTech • Digital Transformation in Retail Banking Technology • Analytics in Financial Services • Financial Markets Systems & Technology • Corporate Banking & Blockchain • Digital Payments & Innovations
ANALYTICS TECHNOLOGY & APPLICATIONS (ANALYTICS)	• Analytics Framework & Business Context • Applied Statistical Analysis with R • Operations Analytics & Applications • Text Analytics & Applications • Applied Machine Learning* • Data Management • Python for Data Science • Big Data: Tools & Techniques • Social Analytics & Applications • Data Analytics Lab • Customer Analytics & Applications* • Visual Analytics & Applications • Process Analytics using Simulation
ARTIFICIAL INTELLIGENCE & APPLICATIONS (AI)	• Algorithm Design & Implementation • Deep Learning for Visual Recognition*† • AI Planning & Decision Making*† • Introduction to Artificial Intelligence* • Natural Language Processing for Smart Assistants* • Multi-Agent Systems*† • Applied Machine Learning* • Recommender Systems*† • AI Translational Research Seminar (without credit)
INFORMATION TECHNOLOGY MANAGEMENT (TECH)	• Cybersecurity Technology & Applications • Global Sourcing of Technology & Processes • Spreadsheet Modelling for Tech & Ops Decisions • IoT: Technology & Applications • IT Project & Vendor Management • Digital Transformation Strategy
GENERAL MANAGEMENT FOR TECHNOLOGY & OPERATIONS (GENERALMGT)	• Financial Accounting (0.5 CU) • Strategy & Organisation • Management Accounting (0.5 CU) • Finance for Tech & Ops Managers
PRACTICUM	• Internship (2 CUs) • Capstone Project (2 CUs)

* A compulsory pre-requisite course is required.

† 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. Course modules listed are subjected to change.

Graduation Requirements

Students must complete and pass a total of 13 Course Units (CUs) in order to graduate with the MITB degree.

ANALYTICS TRACK (AT)

COMPULSORY COURSES (3 CUs)

TECH	Spreadsheet Modelling for Tech & Ops Decisions
ANALYTICS	Data Analytics Lab
ANALYTICS	Applied Statistical Analysis with R

TRACK ELECTIVES (5 CUs)

TECH	Choose any 2 CUs
GENERALMGT	
ANALYTICS	Choose any 3 CUs

OPEN ELECTIVES (5 CUs)

Option 1	Capstone Project/Internship + 3 CUs from any course series
Option 2	5 CUs from any course series

FINANCIAL TECHNOLOGY & ANALYTICS TRACK (FTA)

COMPULSORY COURSES (5 CUs)

TECH	Spreadsheet Modelling for Tech & Ops Decisions
ANALYTICS	Data Analytics Lab
ANALYTICS	Applied Statistical Analysis with R
FINTECH	Analytics in Financial Services
FINTECH	Digital Banking & FinTech

TRACK ELECTIVES (4 CUs)

TECH	Choose any 2 CUs
GENERALMGT	
ANALYTICS	Choose any 1 CU
FINTECH	Choose any 1 CU

OPEN ELECTIVES (4 CUs)

Option 1	Capstone Project/Internship + 2 CUs from any course series
Option 2	4 CUs from any course series

ARTIFICIAL INTELLIGENCE TRACK (AI)

COMPULSORY COURSES (3 CUs)

TECH	Spreadsheet Modelling for Tech & Ops Decisions
AI	Introduction to AI
AI	Applied Machine Learning
AI	AI Translational Research Seminar (without credit)

TRACK ELECTIVES (6 CUs)

TECH	Choose any 2 CUs
GENERALMGT	
ANALYTICS	Choose either: Big Data: Tools & Techniques or Data Management
AI	Choose any 3 CUs

OPEN ELECTIVES (4 CUs)

Option 1	Capstone Project/Internship + 2 CUs from any course series
Option 2	4 CUs from any course series

Admissions Criteria

- Applicants from all degrees are encouraged to apply, while degrees from Computing, Engineering, Mathematics and related technical fields are preferred.

- For AI Track applicants, coding artefacts must be submitted together with the application.

- Preferably 2 years work experience in IT and/or operations related work experience in any industry; Analytical and Mathematically inclined.

- IELTS/UKVI (Academic)/TOEFL is required for applicants whose Bachelor's/Master's/PhD Degree programme was not taught in English.

- A valid GMAT/GRE score (SMU's GMAT Code: F8D-Z4-61 & GRE Code: 2861).

- Bachelor's/Master's/PhD Degree graduates from the four local universities (SMU, SUTD, NTU, NUS) may take the SMU Admission Test in place of GMAT/GRE.

Application Details

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

Application Period	Intake
January to May	August
June to October	January the following year

To apply, please submit an online application at **www.smu.edu.sg/mitb**

Scholarships and Financial Assistance

We have a variety of scholarships and awards which cater to different tracks of the MITB programme.

For more information, please visit:
https://smu.sg/MITBScholarships

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. **https://smu.sg/MITBFees**

* 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.

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 testament 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.

INNOVATIVE CURRICULUM

Stay relevant with courses that combine cutting-edge research and up-to-date knowledge with best business practices. SMU's Professional Development Series 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 precincts, 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.

What Makes SMU MITB Special?

Debasish Behera
MITB (Analytics)
Class of 2018
R&D Scientist
Procter and Gamble (P&G)

"MITB is one of the best analytics programmes that can be pursued in Asia. It not only gave me the flexibility to choose the subjects of my interest, but also the option of doing an internship which was a great learning experience. The faculty and up-to-date curriculum are top-notch which can rarely be seen in other programmes. My key takeaway from MITB was its curriculum which focuses on learning by doing.

"The MITB curriculum is holistic and diverse, designed to be practice-based and placed in the context of real world examples and case studies. Not only has MITB strengthened me in deep thinking and strategy, it has also trained me in finding innovative solutions to break through business bottlenecks."

Fu Yi
MITB (Financial Services Analytics)
Class of 2019
Product Delivery Lead
Leading Multinational Bank

The MITB Programme

The definitive Master of IT in Business (MITB) programme will give you an unparalleled edge with the knowledge of data, processes, technologies and management strategies. With three unique specialisation tracks to choose from, you will be poised to lead the industry in a time of transformation.

MITB

Financial Technology & Analytics

Analytics

Artificial Intelligence
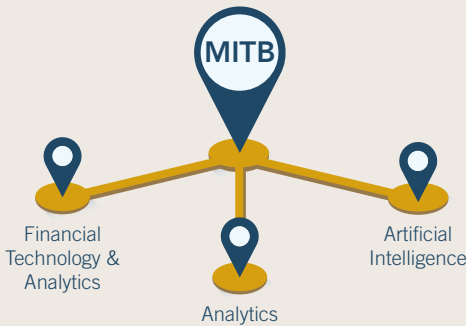
Up-to-Date Curriculum

Constant revision and addition of new course units into the curriculum keeps us in sync with market trends, technology and practices.

Capstone Project/Internship

Students can apply and integrate what they have learnt and gain real-world working experience.

Industry Partners

Strong industry partners provide feedback on our curriculum, besides offering our students networking and internship opportunities and industry-related seminars.

World-Class Faculty

Programmes are delivered by well-qualified and experienced faculty members from diverse industries who provide real-world scenario learning.

Students' Academic Background

Engineering	Business/Finance	Computing	Arts & Social Sciences	Science
31%	25%	18%	15%	11%

Data: Based on MITB 2019 cohort, i.e. January 2019 & August 2019 intakes.

Graduates' Employability and Class Profile

~90% employed within **6** months upon graduation

Typical Age Range	Average GMAT	International Students	Typical Years of Work Experience	Student Nationalities
24-35	650	63%	4 yrs	9

Class Profile Data: Based on MITB 2019 cohort, i.e. January 2019 & August 2019 intakes.
Graduates' employability data is based on a survey conducted for MITB students who filed for graduation in January 2019.

Ranking and Accreditations

Master of IT in Business

1ST IN ASIA
14TH WORLDWIDE

QS MASTERS IN BUSINESS ANALYTICS RANKINGS 2020

TOP 20
MASTERS IN BUSINESS ANALYTICS
QS WORLD UNIVERSITY RANKINGS
2020