Master of Science in Analytics

TAKE THE
LEAP
INTO
DATA

Database Systems
Data Mining

Operations Research
Analytics Software

Analytics Workshop

Information Retrieval and Analysis
Stochastic Processes for Data Science
Statistical Modelling and Data Analysis

Financial and Risk Analytics

Time Series Analysis
Data Management and Business Intelligence
Web Analytics

A WORLD-CLASS UNIVERSITY. A CAREER-CHANGING MASTER'S DEGREE.

Data analytics is an essential component of any activity in today's business, science and engineering world. By leveraging on the ever-increasing availability of data, it allows one to optimise performance, maximise profit and engage in strategic decision making.

Located at the heart of Asia, Singapore has a rapidly growing data industry. Data analytics has been identified as a critical part of the country's push to become a Smart Nation, driving the need for skilled professionals in data management and interpretation.

The MSc in Analytics at NTU is hosted by the Division of Mathematical Sciences. It provides rigorous fundamental training in mathematics, statistics and computing, ensuring that our graduates remain relevant in the long term.

In addition, our pool of instructors includes experts from the industry who provide hands-on experience with analytics software tools and coding. Our students also receive the opportunity to carry out their practicum in a company, where they work on real-world problems and data.

Overall, our programme achieves the right balance between fundamentals and hands-on training, immersing you in a transformative learning environment that expands your worldview, fosters critical thinking and decision-making capabilities, and builds your leadership potential.

1st
Times Higher Education Young University Rankings

15th
QS World University Rankings

4th
QS Asia University Rankings

GAIN THE SKILLS COMPANIES NEED

Under the programme, you will develop the ability to:

- Apply statistics and analytics to the real world with a strong mathematical foundation.

- Understand business problems and transform data into creative solutions.

- Analyse and visualise data to produce actionable insights.

- Use analytical tools for big data – such as Excel, SQL, PowerBI, Tableau, R, Python and SAS – for descriptive, predictive and prescriptive analytics.

- Harness data science and analytics techniques to guide the decision-making process.

- Design and execute computing infrastructure and algorithmic techniques for big data analytics.

- Create and manage sustainable systems with analytical and environmental management skills.

42%
of full-time students secure jobs before graduating*

52%
of graduates experience salary increment upon graduation*

*Based on June 2023 graduating class

GET AHEAD OF THE CURVE

- Obtain your Masters degree in 1 year (full-time) or 2 years (part-time)
- Build your global network and leverage on our strong alumni and industry connections
- Gain increased earning potential
- Get internships at MNCs and reputable firms
- Receive holistic development through an interdisciplinary programme

ENLARGE YOUR CAREER POTENTIAL

Across the globe, data analytics skills are in high demand in almost very industry. With a MSc in Analytics, a myriad of exciting career paths awaits you.

- Business Analyst
- Data Analyst
- Data Analytics Consultant
- Data Architect
- Data Scientist
- Financial Analyst
- Management Analyst
- Market Research Analyst
- Marketing Analyst
- Operations Analyst
- Operations Research Analyst
- Statistician

FAST-TRACK YOUR CAREER WITH THE RIGHT PROGRAMME

The MSc in Analytics programme is designed for individuals from diverse backgrounds. Among them are:

- Professionals looking to advance their careers
- High-achieving university graduates interested in a career in data analytics
- Talented, passionate individuals seeking a career change

HEAR FROM OUR GRADUATES

" Through the MSc in Analytics programme, I gained a deeper understanding of the tools and techniques used in the field, enabling me to apply data-driven methodologies to real-world challenges within the financial risk domain. "

NG BEILI BESLEY
MSc Analytics Alumni
Class of 2023
Senior Manager, RHB Bank Berhad

COURSE LIST

Compulsory Courses

MH6142 – Database Systems
MH6151 – Data Mining
MH6191 – Practicum
MH6201 – Operations Research I
MH6202 – Operations Research II
MH6211 – Analytics Software I
MH6212 – Analytics Software II
MH6221 – Analytics Workshop I
MH6222 – Analytics Workshop II
MH6231 – Probability and Statistics
MH6241 – Time Series Analysis

Elective Courses

MH6301 – Information Retrieval and Analysis
MH6311 – Stochastic Processes for Data Science
MH6321 – Statistical Modelling and Data Analysis
MH6322 – Managing Uncertainty & Dependence: From Data To Decisions
MH6331 – Financial and Risk Analytics I
MH6332 – Financial and Risk Analytics II
MH6333 - Analytics in Smart City Operations
MH6341 – Data Management and Business Intelligence
MH6351 – Web Analytics
MH6812 – Advanced Natural Language Processing with Deep Learning
MH6813 – Blockchain Systems I: Concepts and Principles
MH6814 – Blockchain Systems II: Development and Engineering

WE WANT TO HEAR FROM YOU

Discover how you can grow your career in data analytics.

General enquiries: msa@ntu.edu.sg

FOLLOW US ON

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- in spms-msc-analytics

ADMISSION REQUIREMENTS

A good Bachelor's Degree in a quantitative discipline (mathematics, statistics, engineering, computer science etc.).

A good TOEFL score (85 or more) or IELTS score (6.0 or more) for graduates of universities in which English is not the medium of instruction

Below are preferred but not required:

A good GMAT score or GRE score

Some relevant work experience

NOTES

- On average, full-time students take 4-5 classes a week, and part-time students take 2-3 classes a week.
- All courses are conducted at the NTU main campus on weekday evenings or Saturdays.

FEES (inclusive of GST)

Tuition Fees	S$59,950
Deposit Fees	S$5,450 (credited towards tuition fees)

FINANCIAL ASSISTANCE

- Singapore Citizens (SCs): study grant of S$10,000 + GST (S$10,900).
- Singapore Permanent Residents (SPRs): study grant of S$5,000 + GST (S$5,450).
- Needy SCs and SPRs may apply for financial aid (up to S$5,450 in addition to the SC/SPR study grant).
- NTU Alumni: On top of the above, alumni can enjoy a 10% grant of the tuition fee (S$5,800 + GST (S$5,995)).
- SCs and SPRs may enjoy tuition fee subsidies under SkillsFuture Singapore