

### **NEWS RELEASE**

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NTU Singapore launches new Bachelor of Applied Computing in Finance to meet the financial industry's increasing demand for talent with technological expertise

Nanyang Technological University, Singapore (NTU Singapore) is launching a new Bachelor of Applied Computing in Finance (BACF) degree programme to meet the increasing demand from financial institutions and fintech firms for graduates with deep domain knowledge in finance and strong technological and analytical skillsets.

The undergraduate degree programme also aims to support the Singapore government's initiatives to develop a tech-enabled financial sector and to build the talent pipeline to meet the financial industry's need for talent with technological knowhow.

Jointly offered by Nanyang Business School (NBS) and School of Computer Science and Engineering (SCSE), faculty from both schools will co-develop and co-teach several newly designed integrated courses such as Blockchain in Finance, Machine Learning in Finance, and Product Management (see Appendix).

Both schools will also co-design and co-supervise a year-long industry-based applied research project that requires students to design and develop financial applications based on problem statements submitted by industry partners.

The Degree of Bachelor of Applied Computing in Finance will be a full-time programme that is structured to be completed in four years and will commence in the 2024 academic year.

Professor Ling San, NTU's Deputy President and Provost, said: "NTU is launching the Bachelor of Applied Computing in Finance to meet the growing demand from the financial industry for a programme that seamlessly integrates finance domain knowledge with applied analytical and technology skillsets. By leveraging the expertise of two world-class schools, Nanyang Business School and School of Computer Science and Engineering, the new programme demonstrates our strengths in

interdisciplinary education to cultivate talents and leaders throughout the digitalisation journey of the financial industry."

BACF aspires to prepare young talents in the pre-employment stage for the fast-changing financial industry with an application-oriented and cross-disciplinary education, supporting the **Monetary Authority of Singapore's (MAS)** vision of a Smart Financial Centre.

Mr Sopnendu Mohanty, Chief FinTech Officer, MAS, said: "We are pleased that the new course will leverage on disciplines in finance and computing, alongside practical experience through internships. The strong curriculum is well placed to meet the needs of the FinTech ecosystem, where FinTech leaders must wield a blend of technological expertise and in-depth finance domain knowledge. Even as the FinTech landscape continues to be shaped by ever-evolving technologies, talent development remains a key driving force for the financial sector to pursue growth and resiliency."

The launch of the new Bachelor of Applied Computing in Finance is also in line with the **NTU 2025 strategic plan**, which aims to harness the science, art and technology of learning to nurture future-ready graduates, reaffirming the University's commitment to supporting the Singapore government's vision of a tech-enabled financial sector and building up a talent pipeline that meets the evolving needs of the financial industry.

#### Gearing up BACF graduates for diverse roles in finance and fintech

To further increase the experiential study experience, all BACF students will undergo a compulsory 20-week professional internship in relevant job roles.

Students also have the option to apply for broadening and deepening electives to continue their internship for another 10 weeks during the summer holidays, which allows students to take on the enhanced professional internship for 30 weeks in total.

The focus on integrated courses and industry relevance is in line with Singapore's push towards more interdisciplinary and experiential learning in universities.

After completing their BACF degree, students will be equipped with the necessary skills and talents to succeed in a variety of career options, for example, data analysts in financial institutions and fintech firms, digital strategists in financial institutions and consulting firms, and business analysts and product managers in fintech firms.

Mr Naresh Kumar, Head of Data Technology, Corporate, Commercial and Institutional Banking (CCIB) at Standard Chartered Bank, said: "In my opinion, the level of employability would be really high for the students graduating from NTU's Bachelor of Applied Computing in Finance. Currently, the financial industry is growing

into the fintech space, and students graduating with both financial and technical skills would have great career prospects. The course's modules also look very well aligned with industry needs and demands."

The Degree of Bachelor of Applied Computing in Finance allows students to select different specialisations, helping ensure that they develop a strong foundation in their specialisation area and acquire a well-rounded education in finance and technology.

#### The **specialisations** include:

- Financial Analytics and WealthTech: Offers students with up-to-date knowledge and skills in data analysis, mining and visualisation specific to the finance sector and wealth management segment in addition to the conventional knowledge required.
- Crypto Asset and Blockchain: Equips students with a comprehensive understanding of the pricing logic of crypto assets as an alternative investment as well as the technology building blocks of blockchain such as cryptography and distributed systems.
- **Digital Banking and Security**: Prepares students with fundamental training on compliance, law and regulation and sustainability most relevant to the banking segment as well as the necessary knowledge on digitalization and cyber security faced by the banking sector.

Candidates may apply through the GCE "A" level, International Baccalaureate or polytechnic routes.

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#### About Nanyang Technological University, Singapore

A research-intensive public university, Nanyang Technological University, Singapore (NTU Singapore) has 33,000 undergraduate and postgraduate students in the

Engineering, Business, Science, Medicine, Humanities, Arts, & Social Sciences, and Graduate colleges.

NTU is also home to world-renowned autonomous institutes – the National Institute of Education, S Rajaratnam School of International Studies and Singapore Centre for Environmental Life Sciences Engineering – and various leading research centres such as the Earth Observatory of Singapore, Nanyang Environment & Water Research Institute and Energy Research Institute @ NTU (ERI@N).

Under the NTU Smart Campus vision, the University harnesses the power of digital technology and tech-enabled solutions to support better learning and living experiences, the discovery of new knowledge, and the sustainability of resources.

Ranked amongst the world's top universities, the University's main campus is also frequently listed among the world's most beautiful. Known for its sustainability, NTU has achieved 100% Green Mark Platinum certification for all its eligible building projects. Apart from its main campus, NTU also has a medical campus in Novena, Singapore's healthcare district.

For more information, visit www.ntu.edu.sg.

## **Appendix**

## **Specialisation Areas and Major Prescribed Electives (MPE) Courses**

Financial Analytics and WealthTech	Crypto Asset and Blockchain
Basket 1 Courses  *Data Visualisation  Machine Learning	Basket 1 Courses *Blockchain Technology *Distributed Systems
Artificial Intelligence Data Analytics and Mining Natural Language Processing Neural Networks and Deep Learning	Security Management Applied Cryptography Network Security
*Financial and Risk Analytics II  *Wealth Management Financial Compliance Relationship Management Equity Investing with Big Data Sustainable Finance	*Alternative Investments Financial risk management Financing Entrepreneurial Ventures Portfolio Management Operational Risk Management Derivative Securities and Hedging Strategies

# **Digital Banking and Security**

# Basket 1 Courses

\*Cyber Threat Intelligence

Applied Cryptography

Security Management

Artificial Intelligence

**Network Security** 

## Basket 2 Courses

\*Financial Compliance

Financial risk management

Sustainable Finance

Operational Risk Management