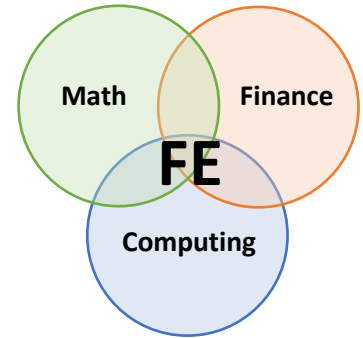


Overview

KMITL-NIDA Double Degree Program in Financial Engineering is a combined Bachelor’s and Master’s degree program jointly offered by Faculty of Engineering, KMITL, and School of Development Economics, NIDA. The program intends to train a new generation of financial engineers who have a strong foundation in the theories of economics and finance, mathematical methods for quantitative data analysis, and computer programming and technologies that are useful in finance, and are capable of integrating and utilizing all those knowledge and skills in order to solve complex financial problems faced by organizations.



The graduates are expected to be able to skillfully analyze huge amount financial data to support the planning of the firm’s investment strategies and the management of risks and be able to design financial tools, products, and innovations that meet the needs of the industry. The program also aims to train its students to be ready to work confidently in the international environment with integrity and professional ethics.

Strengths

- From Year 1 until graduation, students have opportunities to learn from the faculty members from the School of Development Economics, NIDA, who are experienced and have expertise in economics and finance and the faculty members with expertise in engineering and technologies from the Faculty of Engineering, KMITL.
- Classes are held at both KMITL and NIDA. Shuttle buses between KMITL and NIDA campuses are provided. Students can use all the facilities, such as libraries, sport facilities, the Internet) at both KMITL and NIDA during their entire study period.
- Both KMITL and NIDA have extensive partnerships with industry and universities worldwide. This provides excellent opportunities for the students to undertake internships and study abroad.

Careers

- Work in financial institutes, such as banks, financial securities firms, or insurance companies, as a quantitative analyst (or a quant), fund manager, or financial risk manager
- Work as a financial advisor
- Work in the FinTech industry

Study Plans

	Semester 1	Semester 2
Year 1	<ul style="list-style-type: none"> – Introduction to Calculus – Linear Algebra – Introduction to Programming – Introduction to Economics – Logic and Critical Thinking – English for Business Studies 	<ul style="list-style-type: none"> – Differential Equations – Discrete Mathematics – Object-Oriented Concepts and Programming – Financial Reporting and Analysis – Microeconomics for Financial Analysis – Technical Writing
Year 2	<ul style="list-style-type: none"> – Probability and Statistics 1 – Numerical Methods – Data Structures and Algorithms – Financial Management – Macroeconomics and Financial System – Business Communication 	<ul style="list-style-type: none"> – Probability and Statistics 2 – Optimization Methods – Information Systems and Databases – Introduction to Econometrics – Financial Markets and Institutions – Gen-Ed Elective 1

Year 3	<ul style="list-style-type: none"> – Introduction to Stochastic Processes – Introduction to Data Science – Computer Networking and the Internet – Equity and Fixed Income Valuation – Portfolio Analysis and Management – Business Computing 	<ul style="list-style-type: none"> – Machine Learning – Computer and Network Security – Financial Derivatives – International Financial Market – Financial Risk Management – Gen-Ed Elective 2
Summer Internship		
Year 4	<ul style="list-style-type: none"> – Financial Engineering Project 1 – Seminar 1 – Financial Econometrics and Forecasting – Financial Technology – Ethics and Law for Financial Engineers – Gen-Ed Elective 3 – Major Elective 1 	<ul style="list-style-type: none"> – Financial Engineering Project 2 – Seminar 2 – Financial Engineering – Major Elective 2 – Free Elective 1 – Free Elective 2
Graduate with B.Eng. in Financial Engineering		
Year 5	<ul style="list-style-type: none"> – Financial Modeling – Financial Data Analytics – [Plan A] Thesis 1 – [Plan B] Research Methodology 	<ul style="list-style-type: none"> – [Plan A] Thesis 2 – [Plan B] Independent Study – [Plan B] Master Elective 1 – [Plan B] Master Elective 2
Graduate with M.S. in Financial Engineering		

Admission Requirements

1. Educational background – Graduated from a high/secondary school or equivalence
2. Mathematics skills – one of the following:

Test	Score
SAT Math Score or Subject Test Math 1 or Math 2	600
A-Level or AS-Level for a mathematical subject	B
PAT 1 Score	90

3. English language proficiency - one of the following:

Test	Score
TOEFL (iBT – Internet-based test)	79
TOEFL (ITP or paper-based test)	550
IELTS	6.0
Cambridge English Exams – FCE or CAE or CPE	170

How to Apply

- Direct admission
- Tentative admission period: February – May 2019

Contact

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- Line: [@ic.kmitl](https://www.line.me/tv/00000000000000000000)