



MASTER OF ENGINEERING

Innovation Engineering

VINCENT MARY SCHOOL OF
ENGINEERING, SCIENCE AND TECHNOLOGY

A two-year master's degree that integrates mechanical, electrical, energy, computer and intelligent-systems engineering — trained on real industrial problems and finished with either a research thesis or a working independent study.

[APPLY NOW →](#)**DEGREE**
M.Eng.**DURATION***
2 Years**PLANS**
1 & 2**SCHEDULE**
Flexible**INTAKES**
Jun · Nov

* The duration of a study program is the standard expected time frame for a student to complete all academic requirements, such as coursework, credits, or research, to earn a specific degree.

About the Program

The Master of Engineering in Innovation Engineering is a two-year graduate program in a *modern engineering discipline that combines mechanical, electrical, energy engineering, computer systems, intelligent robotics, and information technologies to design innovative products and processes.*

Rather than deepening a single specialty, the curriculum trains engineers across disciplines. Plan 1 closes with a thesis suitable for doctoral study or industrial research; Plan 2 closes with an independent study and a comprehensive examination, and is built for working professionals.

THE PROGRAM FOCUSES ON

01

Integrate

Multiple engineering fields working in synergy — mechanical, electrical, energy, computer, and intelligent systems.

02

Solve

Real-world problems addressed with practical, innovative approaches grounded in working industrial constraints.

03

Challenge

Traditional engineering methods rethought through cross-disciplinary teamwork and integrative design.

AFTER THE MASTER'S.

Engineers who design, build, and integrate the systems behind modern industry.

- Innovation or R&D engineer in industry
- Renewable-energy or smart-grid engineer
- Embedded systems or IoT design engineer
- Product development or systems integration lead

- Mechatronics or robotics systems engineer
- Automotive electrical and control engineer
- AI, computer-vision, or data-systems engineer
- University instructor or doctoral candidate

Study Plans

PLAN 1 · THESIS TRACK

Coursework and Thesis

For students aiming at research, doctoral study, or publication-track careers.

45 CREDITS

Foundation courses	Non-credit
Required courses	6
Elective courses	24
Thesis	15

Year 1 · Semester 1	INE 6211 Commercial Product Innovation, Engineering Management, and Entrepreneurships (3 Credits) INE 6212 Engineering Seminar and Research Method (3 Credits) Elective course 1 (3 Credits)
Year 1 · Semester 2	Elective courses 2–4 (9 Credits)
Year 1 · Semester 3	Elective courses 5–7 (9 Credits)
Year 2 · Semester 1	Elective course 8 (3 Credits) INE 7221 Thesis (3 Credits)
Year 2 · Semester 2	INE 7221 Thesis (6 Credits)
Year 2 · Semester 3	INE 7221 Thesis (6 Credits)

Coursework and Independent Study

For working professionals applying advanced engineering methods in industry roles.

45 CREDITS

Foundation courses	Non-credit
Required courses	6
Elective courses	33
Independent Study	6
Comprehensive Examination	Non-credit

Year 1 · Semester 1	INE 6211 Commercial Product Innovation, Engineering Management, and Entrepreneurships (3 Credits) INE 6212 Engineering Seminar and Research Method (3 Credits)
Year 1 · Semester 2	Elective courses 2–4 (9 Credits)
Year 1 · Semester 3	Elective courses 5–7 (9 Credits)
Year 2 · Semester 1	Elective courses 8–9 (6 Credits)
Year 2 · Semester 2	INE 7211 Independent Study (3 Credits) Elective course 10 (3 Credits)
Year 2 · Semester 3	INE 7211 Independent Study (3 Credits) Elective course 11 (3 Credits)

COURSE CATALOG

Twenty-four elective credits in Plan 1, or thirty-three in Plan 2, drawn from four engineering families plus a capstone. Course numbering follows the school’s own series convention.

Foundation

INE 5111 Fundamentals in Engineering

Required

INE 6211 Product Innovation, Engineering Management, and Entrepreneurships

INE 6212 Engineering Seminar and Research Method

ELECTIVE FAMILIES

63xx Mechanical & Control

6 COURSES

- INE 6311** Engineering Analysis
- INE 6312** Numerical Simulation using Finite Element Method
- INE 6314** Thermal System Design
- INE 6315** Digital Control Systems
- INE 6316** Mechatronics and Robotics

64xx · 84xx Energy & Automotive

7 COURSES

- INE 6411** Renewable Energy Engineering and Innovation
- INE 6412** Smart Grid Innovation for Smart Energy
- INE 6413** Energy Storage Engineering and Innovation
- INE 6414** Energy Conservation in Industry and Building Innovation
- INE 6415** Automotive Power Electronic and Control System
- INE 6416** Automotive Electrical Machines and Drives
- INE 8416** Advanced Automotive Electrical Machines and Drives

65xx Computer & Intelligent Systems

6 COURSES

- INE 6511** Design and Analysis of Computer Algorithms
- INE 6512** Digital System Architecture
- INE 6513** Artificial Neural Networks
- INE 6514** Digital Image Processing
- INE 6515** Data Engineering and Intelligent Systems
- INE 6516** Wireless Sensor Networks and Internet of Things

66xx Systems & Selected Topics

6 COURSES

- INE 6611** System Modelling, Analysis and Design
- INE 6612** Computational Method, Optimization and Artificial Intelligence
- INE 6613** Selected Topics in Innovation Engineering 1
- INE 6614** Selected Topics in Innovation Engineering 2
- INE 6615** Selected Topics in Innovation Engineering 3
- INE 6616** Selected Topics in Innovation Engineering 4

Capstone

INE 7211 Independent Study · 6 credits

INE 7221 Thesis · 15 credits

Estimated Tuition

Applies to both Plan 1 and Plan 2 · 6 installments over 2 years

INSTALLMENT	THAI STUDENTS (฿)	NON-THAI STUDENTS (฿)
Semester 1	95,000	121,500
Semester 2	84,000	84,000
Semester 3	84,000	84,000
Semester 4	79,000	102,500
Semester 5	79,000	79,000
Semester 6	79,000	79,000
Total	฿500,000	฿550,000

Tuition does not include the admission fee or textbooks. Fees are subject to change at the University's discretion without prior notice. The exchange rate is contingent upon fluctuations in the foreign exchange market.

Admission Schedule

Three trimester intakes per academic year. Dates marked ~ are projected from the most recent published calendar and pending coordinator confirmation.

TRIMESTER 2 / 2026 September – December 2026 APPLICATION DEADLINE ~Fourth week of August 2026 AU EPT & INTERVIEW By appointment REGISTRATION & PAYMENT ~Last week of August 2026 INDUCTION DAY ~First week of September 2026 INSTRUCTION BEGINS ~First week of September 2026	TRIMESTER 3 / 2026 January – April 2027 APPLICATION DEADLINE ~Last week of December 2026 AU EPT & INTERVIEW By appointment REGISTRATION & PAYMENT To be announced INDUCTION DAY ~Second week of January 2027 INSTRUCTION BEGINS ~Second week of January 2027	TRIMESTER 1 / 2027 May – August 2027 APPLICATION DEADLINE ~Fourth week of April 2027 AU EPT & INTERVIEW By appointment REGISTRATION & PAYMENT ~Fourth week of April 2027 INDUCTION DAY ~First week of May 2027 INSTRUCTION BEGINS ~First week of May 2027
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Graduation Requirements

Plan 1 · Coursework and Thesis

- 01

Complete all required courses in the curriculum
- 02

Cumulative GPA of 3.00 or higher
- 03

Propose the thesis and pass the final oral thesis defense before a university-appointed committee. The defense is open to the public.
- 04

Publish the thesis (or part of it), obtain acceptance for publication in a national or international journal in accordance with OHEC's Regulations on Criteria for Selection

Plan 2 · Coursework and Independent Study

- 01

Complete all required courses in the curriculum
- 02

Cumulative GPA of 3.00 or higher
- 03

Pass the oral and/or written comprehensive examinations
- 04

Propose the independent study and pass the final oral defense before a university-appointed committee. The defense is open to the public.

of Academic Journals for Publication of Academic Works (B.E. 2565) and approved by the faculty, or present at a conference and have the full paper published in the proceedings

05 Obtain library and financial clearance from the University

06 Demonstrate good behavior and discipline

05 Publish the independent study (or part of it) in any retrievable form

06 Obtain library and financial clearance from the University

07 Demonstrate good behavior and discipline

HAVE A QUESTION?

Talk to the Office of Graduate Studies on LINE — we'll help you with anything you're wondering about.

Programs · admissions · scholarships · English requirements. Add [@abacgrad](#) or scan the code to start a chat.



Who Should Apply

- A bachelor's degree in Engineering, Science, or a related field from an institution accredited by the Ministry of Education, Thailand. Candidates without the specified degree may be required to complete foundation courses, as determined by the program director and approved by the dean.
- A cumulative GPA of 2.5 or higher (out of 4.0), or at least one year of work experience in engineering or a related field
- Completion of the admission test and/or an interview specific to the program
- English proficiency that meets the entrance examination or exemption criteria below

Venue & Class Hours

CAMPUS

Suvarnabhumi Campus

Bang Na – Trad Rd. Km. 26
Bang Sao Thong, Samut Prakan 10540

CLASS HOURS

MON – FRI

17:00 – 20:00

SAT – SUN

09:00 – 17:00

Flexible class schedule.

Application Documents

- 01 A completed application form
- 02 An official transcript from the previous university (1 copy)
- 03 A bachelor's degree certificate (1 copy)

- 04 A citizen identification card and house registration — Thai applicants (1 copy)
- 05 A passport — Non-Thai applicants (1 copy)
- 06 One photograph, 1 × 1.5 inches, in formal attire (not graduation gown)
- 07 Two letters of recommendation from former instructors or current employers

Admission fee: **฿1,000 (non-refundable)**

Note — applicants who graduated from overseas universities must submit, at the time of applying, certified, attested, or notarized academic documents bearing the seal of the Ministry of Foreign Affairs, Ministry of Education, or the relevant competent authority.

English Proficiency

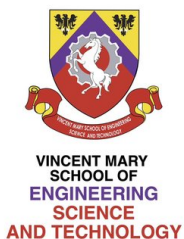
Entrance Examination

- AU English Proficiency Test
- Interview entrance examination

Exemption

- TOEFL (iBT) score of 80 or higher, or IELTS (Academic) 6.0 or higher — valid for two years
- A bachelor's degree from a native English-speaking country (the United States, Canada, the United Kingdom, Australia, or New Zealand)

School Contact



SUARNABHUMI CAMPUS

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www.vmes.au.edu · Facebook · Instagram *Auvmes*

Graduate Admissions Office

MON – FRI
08:30 – 17:00

SATURDAY
08:00 – 16:30

SUNDAY
08:00 – 14:00

IMPORTANT

The provisional information statements set forth in this catalog should not be construed as the basis of any contract between a student and this institution. As such Assumption University reserves the right to change any provision listed in this catalog, including, but not limited to academic requirements for graduation. Every effort, through the Office of Graduate Studies, will be made to keep students advised of any such changes.

UNIVERSITY ADMISSIONS
CENTER

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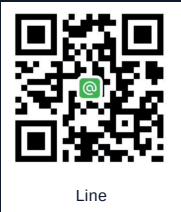
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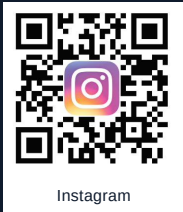
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