

Online Program: Master of Engineering in Artificial Intelligence and Internet of Things (International Program) Major: Applied AI

Degree: M.Eng. (Artificial Intelligence and Internet of Things)

Program Structure

Courses: 30 Credits, consisting of:

Core Courses: 18 credits

Elective Courses: 12 credits

Independent Study: 6 credits

List of Courses

C = Core Course

E = Elective Course

1 credit per course

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First Group (Courses will be released from April 2024 onwards)	
1	Computational Mathematics: Linear Algebra (C)
2	Research Methodology in Applied Artificial Intelligence (C)
3	Machine Learning: Supervised Learning (C)
4	Machine Learning: Deep Learning (C)
5	Basic Programming with Python for Artificial Intelligence (C)
6	Computational Mathematics: Discrete Mathematics (C)
7	Computational Mathematics: Probability (C)
8	Research Seminar I in Applied Artificial Intelligence (C)
9	Research Seminar II in Applied Artificial Intelligence (C)
10	Principles of Artificial Intelligence: Problem Solving and Search (C)
11	Knowledge and Reasoning: Logic and Uncertainty (C)
12	Applications of Artificial Intelligence: Theories and Innovations (C)
13	Machine Learning: Unsupervised Learning (C)
14	Advanced Programming with Python Libraries for Artificial Intelligence (C)

For more information about TUXSA

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15	AI Applications with Python and AI Languages (C)
16	Practical Development of Artificial Intelligence Applications (C)
17	Practical Development of Machine Learning Applications (C)
18	Critical Thinking and Ethics/Law for Artificial Intelligence (C)
Second group (Courses will be released from January 2025 onwards)	
19	Computer Vision Fundamentals (E)
20	Internet of Things Fundamentals (E)
21	Natural Language Processing Fundamentals (E)
22	Structural and Advanced Natural Language Processing (E)
23	Natural Language Processing Applications (E)
24	Structural and Advanced Computer Vision (E)
25	Computer Vision Applications (E)
26	Signal Processing and Analytics (E)
27	Internet of Things and Signal Processing Applications (E)
28	Robotics and Robot Operating Systems (E)
29	Robotics Kinematics and Modeling (E)
30	Advanced Robotics Controls (E)

Choose the Learning Outcome

✓ That Suits You



Learn for Knowledge

Choose courses that interest you
 Non-credit course
 Enhance your skills
 Unlock your career opportunities

LEARNING OUTCOME 1



Earn Credit and Certificate of Course Completion

Complete the online learning and exams for each course to meet the required criteria and earn credits.

LEARNING OUTCOME 2



Earn Certificate of Specialization Completion

Complete the online learning and exams for the specified courses as required by the curriculum

LEARNING OUTCOME 3

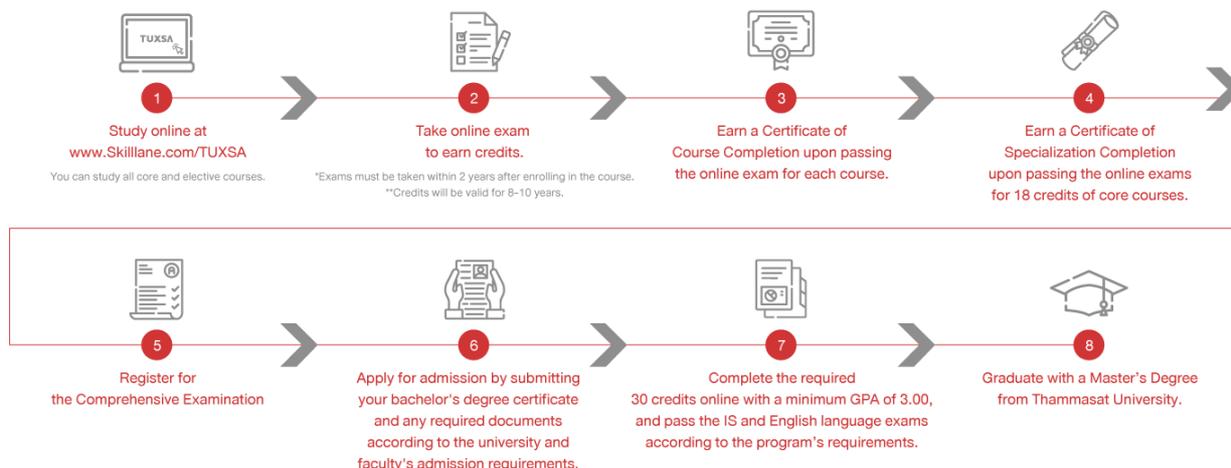


Master's Degree

- Complete 30 credits of online courses. (30 courses)
- Pass the Comprehensive Examination. (on-campus)
- Pass the Independent Study (IS) Examination. (on-campus)
- Pass the English proficiency test.
- Hold at least a bachelor's degree.
- Meet the admission criteria of Thammasat University and the faculty.

LEARNING OUTCOME 4

Pathway to a Master's Degree



Total Program Fee*

Item	Fee/course	Total Fees
Course Fee (Non-credit)	1,250 THB	37,500 THB (30 credits)
Examination fee for credit accumulation	2,500 THB	75,000 THB (30 credits)
Comprehensive Examination Fee (per attempt)		5,000 THB
Admission Application Fee (per attempt)		1,000 THB
Independent Study (IS) Fee** (6 credits)		60,000 THB (10,000 THB/credit)
Special Fee (after registering as a student at Thammasat University)*** (per semester)		8,760 THB
Insurance Fee for Institutional Property Damage (First semester only)		5,000 THB
Total		192,260 THB****

Note

*Fees may be subject to change without prior notice.

**For IS registration, students must pass the exam within 5 years. Students can choose to register for a total of 6 credits in 1 semester or divide the IS registration into 2 semesters, with 3 credits each.

***If the study period as a Thammasat student exceeds 1 semester, additional charges will apply.

****This cost does not include other fees (after enrolling as a Thammasat University student) as announced by Thammasat University.

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Requirements for earning a Certificate of Course Completion

- 1) Pass the online exam for each course with a grade of D or higher to earn course credits.
- 2) Pass the online exam for each course with a grade of D or higher to earn the Certificate of Course Completion.

Requirements for earning the Certificate of Specialization Completion

Complete 18 credits of core courses.

Requirements for taking the comprehensive examination

- 1) Complete 18 credits of core courses with a grade of C or higher in each course.
- 2) Achieve a cumulative GPA of at least 3.00 on a 4.00 scale.
- 3) The Comprehensive Examination results will be valid for 5 years from the date of passing the exam.

Requirements for admission to the Artificial Intelligence and Internet of Things Program, Major in Applied**AI**

- 1) Hold at least a bachelor's degree in any field from a recognized institution, either domestically or internationally.
- 2) Complete 18 credits of core courses with a grade of C or higher in each course.
- 3) Achieve a cumulative GPA of at least 3.00 on a 4.00 scale.
- 4) Meet general eligibility requirements and not have any disqualifying characteristics as outlined in section 22 of the Thammasat University Regulations on Graduate Education, BE 2561.
- 5) Pass the Comprehensive Examination with a grade of P (Pass) and be ranked based on their scores for selection according to the annual admission quota.
- 6) Satisfy the English language proficiency requirements for international programs or satisfy the other requirements set by the Sirindhorn International Institute of Technology Committee.

Requirements for transferring academic records from TUXSA system to Thammasat University Transcript

- 1) After the student registration process is done, a student must transfer the grades of the core courses from TUXSA online system to an official transcript. (The grades transferred must not be lower than "C.")
- 2) After the student registration process is done, a student can choose the grades of elective courses to transfer from TUXSA online system to an official transcript. (The grades transferred must not be lower than "C.")
- 3) After the first round of credits transfer, a student who would like to transfer the grades of the remaining elective courses can submit a transfer request to Thammasat University according to the methods and during the period specified by the university.
- 4) The grades which are completely transferred to an official transcript cannot be re-transferred or adjusted.
- 5) There is no limit to the number of credits that can be transferred.

Requirements for enrolling in Independent Study (IS)

- 1) Complete 18 credits of core courses with a grade of C or higher in each course.
- 2) Achieve a cumulative GPA of at least 3.00 on a 4.00 scale.
- 3) Achieve a grade of P (Pass) in the Comprehensive Examination.

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- 4) If a student would like to register for Independent Study 2 in the same semester as Independent Study 1, a request must be submitted to the Sirindhorn International Institute of Technology Committee for individual consideration.
- 5) Independent Study must be conducted in English.
- 6) After registering for an independent study, a student must complete the independent study proposal, proposal examination, and the final defense which will be evaluated by an independent study committee that is appointed by the board of Sirindhorn International Institute of Technology.
- 7) The qualifications of Independent Study advisors and examination committee members must meet the standards set by the Graduate School Program of the Office of the Higher Education Commission.
- 8) The independent study examination and evaluation are in accordance with the rules and regulations of Sirindhorn International Institute of Technology.

Requirements for completing the Master's Program in Artificial Intelligence and Internet of Things, Major:

Applied AI

- 1) Pass the Comprehensive Examination.
- 2) Complete all required courses according to the curriculum and earn a minimum of 36 credits.
- 3) Complete 18 credits of core courses and 12 credits of elective courses with a grade of C or higher in each course.
- 4) Achieve a cumulative GPA of at least 3.00 on a 4.00 scale.
- 5) Receive a grade of S (Satisfactory) in the Independent Study (6 credits), evaluated by a committee appointed by Sirindhorn International Institute of Technology.
- 6) Ensure that the Independent Study report, or a part of it, is published in an accessible format.
- 7) Pass both the proposal examination and the final defense examination, evaluated by a committee appointed by Sirindhorn International Institute of Technology.
- 8) Satisfy the English proficiency requirements in accordance with the guidelines outlined in the Sirindhorn International Institute of Technology Announcement.
- 9) Comply with any additional conditions set by Sirindhorn International Institute of Technology.
- 10) Settle all financial obligations with Sirindhorn International Institute of Technology.

Requirements for regrading in TUXSA System

- 1) Regrading process can be done in TUXSA system only. After being transferred to a student's transcript, the grades cannot be adjusted.
- 2) Regrading is only allowed for grades below B.
- 3) When a student re-enrolls a course, the system will immediately withdraw the previous result, and when the process is done, the system will only record the new grade.
- 4) Course and examination fees must be paid every time a student regrades.
- 5) A student who regrades must complete the examination of each subject to collect credits within 2 years from the registration date.
- 6) Since there might be changes in availability of certain courses in the future, a student who would like to regrade has to re-enroll and complete the exams of those courses to earn the credits before the courses are no longer available.

