

Course Detail
Master of Science Program in Engineering and Technology

Course Title:	Master of Science Program in Engineering and Technology (International Program)
Master Degree:	Master of Science (Engineering and Technology)
Academic Institution:	Sirindhorn International Institute of Technology, Thammasat University, Rangsit Campus
Duration:	Two (2) years (August 2020 – July 2022)

Background and Rational:

Nowadays, economy and society are rapidly changing in various aspects. To address these changes, it is necessary for SIIT to develop the Master of Science in Engineering and Technology curriculum that is up to date and enable graduates to professionally cope with current challenges in their working life with morals and ethics. The SIIT curriculums are established according to the aim of Thammasat University to produce skillful graduates who can bring their knowledge and ability to sustainably develop the country in terms of economy and society.

Objective:

To educate graduate students to be able to conduct high quality and innovative research in engineering and related technological development.

Course Synopsis and Methodology:**Study plan**

Number of the total credits not less than 39 credits

Plan A; A1 (Research plan)	39	credits
- Thesis	39	credits
Plan A; A2 (Coursework and research plan)	39	credits
- Compulsory Course	3	credits
- Elective Courses	9	credits
- Thesis	27	credits

Course Content/Study Topic:**Plan A1**

ES808 Thesis 39 credits

Plan A2

Compulsory Course 3 credits

ES610 Research Methods and Communications 3(3-0-9)

Elective Courses 9 credits

Select three of the following courses:

ES601 Advanced Engineering Mathematics 3(3-0-9)

ES607 Selected Topic I 3(3-0-9)

ES608 Selected Topic II 3(3-0-9)

ES609	Selected Topic III	3(3-0-9)
ES611	Theory of Computation	3(3-0-9)
ES612	Advanced Business Statistics	3(3-0-9)
ET600	Numerical Methods for Engineers	3(3-0-9)
ICT600	Computational Mathematics	3(3-0-9)
SE600	Decision Making and Optimization	3(3-0-9)
Thesis		27 credits
ES807	Thesis	27 credits

Graduation Condition:

Plan A1

- Students must successfully complete 39 credits of thesis.
- Papers are published in one of the following:
 - At least one paper on thesis results must have been published or accepted for publication in a qualified international journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee, or
 - At least one paper on thesis results must have been published or accepted for publication in a qualified national journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee and at least one paper on thesis results must have been accepted for presentation in a national conference and for publication of a full paper in national conference proceedings.
 - Approval of the thesis by the Thesis Committee, and passing a thesis defense.
 - Having satisfied one of the following English proficiency requirements:
 - A TOEFL (official or institutional) score of at least 550 (paper-based), or 213 (computer-based), or 79 (internet-based)
 - An IELTS score of not less than 6.5
 - A TU-GET score of not less than 550 (paper-based), or 79 (computer-based)
 - A TOEIC score of not less than 750
 - “P” grade in TU005 English 1 and TU006 English 2

The score must not be older than 2 years from the test date to the start of the academic semester prior to the student’s first academic semester and must not be older than 2 years from the test date to the student’s entrance examination date.

Plan A2

- Twelve credits of courses (see the course descriptions) with a GPA of at least 3.00
- Twenty seven credits of thesis with grade “S”
- Papers are published in one of the following:
 - At least one paper on thesis results must have been published or accepted for publication in a qualified international journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee, or
 - At least one paper on thesis results must have been published or accepted for publication in a qualified national journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee and at least one paper on thesis results must have been accepted for presentation in a national conference and for publication of a full paper in national conference proceedings, or
 - At least one paper on thesis results must have been accepted and registered for presentation in an international conference and also for publication of a full paper in

international conference proceedings, and at least one paper on thesis results must have been submitted for publication in a qualified national journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee.

- Approval of the thesis by the Thesis Committee, and passing a thesis defense.
- Having satisfied one of the following English proficiency requirements:
 - A TOEFL (official or institutional) score of at least 550 (paper-based), or 213 (computer-based), or 79 (internet-based)
 - An IELTS score of not less than 6.5
 - A TU-GET score of at least 550 (paper-based), or 79 (computer-based)
 - A TOEIC score of not less than 750
 - “P” grade in TU005 English 1 and TU006 English 2

The score must not be older than 2 years from the test date to the start of the academic semester prior to the student’s first academic semester and must not be older than 2 years from the test date to the student’s entrance examination date.

Exemption: An applicant who is a native English speaking student from Australia, Canada, New Zealand, United Kingdom, or USA may be exempted from the above English proficiency requirements if he/she passes an interview by an SIIT interviewing committee consisting of 3 native English speaking instructors.

Qualification:

Applicants’ qualification	Master of Science Program in Engineering and Technology	
	Plan A1	Plan A2
Education level	A bachelor’s degree from SIIT.	A bachelor’s degree in engineering, science, or a related field that is accepted by the SIIT Executive Committee.
GPA	A top 20% class rank for a bachelor’s degree, or a cumulative GPA of at least 2.75, or 2.50 with sufficient relevant research or work experience as specified by the SIIT Executive Committee.	A top 20% class rank for a bachelor’s degree, or a cumulative GPA of at least 2.75, or 2.50 with sufficient relevant research or work experience as specified by the SIIT Executive Committee.
Work experience	-	-
Engineering and Technology research experience	-	-
English language proficiency	TOEFL (Paper based) = 400 TOEFL (Computer based) = 97 TOEFL (Internet based) = 32 IELTS = 4.5 TU-GET = 400 TOEIC = 500 The score must not be older than two years from the date, on which it was issued, to the date of the application for admission to the program. In the case of no English score or a score less than the above requirements, the applicant may be admitted with conditions that he/she must take SIIT English remedial courses and/or SIIT English	TOEFL (Paper based) = 400 TOEFL (Computer based) = 97 TOEFL (Internet based) = 32 IELTS = 4.5 TU-GET = 400 TOEIC = 500 The score must not be older than two years from the date, on which it was issued, to the date of the application for admission to the program. In the case of no English score or a score less than the above requirements, the applicant may be admitted with conditions that he/she must take SIIT English remedial courses and/or SIIT English

	<p>proficiency tests, and meet the requirements set by the institute.</p> <p>Exemption: An applicant who is a native English speaking student from Australia, Canada, New Zealand, United Kingdom, or USA may be exempted from the above English proficiency requirements if he/she passes an interview by an SIIT interviewing committee consisting of 3 native English speaking instructors.</p>	<p>proficiency tests, and meet the requirements set by the institute.</p> <p>Exemption: An applicant who is a native English speaking student from Australia, Canada, New Zealand, United Kingdom, or USA may be exempted from the above English proficiency requirements if he/she passes an interview by an SIIT interviewing committee consisting of 3 native English speaking instructors.</p>
Special qualification	-	-

Document required:

1. At least one page of a statement of purpose
2. Curriculum Vitae (CV) or Resume
3. A copy of official transcript of bachelor's degree
4. A copy of an official certificate of English proficiency, as follows (if any):
TOEFL (PBT 400+) or (CBT 97+) or (IBT 32+) or IELTS 4.5+, or TU-GET 400+, or TOEIC 500+
5. A copy of citizen ID card/passport
6. Research papers, publications, or certificates (if any)
7. A recent photograph (1x1.5 inches' size as .jpeg only)

Remark: Please provide the names and official e-mail addresses of two referees in the online application form. (At least one referee must be your academic/thesis advisor and the other one should be an instructor in your university.)

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***Please remind that the application will complete when TICA receive the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible/territories.