Course Detail

Master of Engineering Program in Logistics and Supply Chain Systems Engineering

1. Course Title:	Master of Engineering Program in Logistics and Supply Chain Systems Engineering (International Program)
2. Master Degree:	Master of Engineering (Logistics and Supply Chain Systems Engineering)
3. Academic Institution:	Sirindhorn International Institute of Technology, Thammasat University, Rangsit Campus
4. Duration:	Two (2) years (August 2025 – July 2027)

5. 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 Engineering Program in Logistics and Supply Chain Systems Engineering 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.

6. Objective:

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

7. Course Synopsis and Methodology:

7.1 Study plan

Number of the total credits not less than 36 credits

Plan A; A2 (Coursework and research plan)	**36**	**Credits**
- Compulsory Course	9	Credits
- Compulsory Elective Courses	15	Credits
- Master's Thesis	12	Credits

7.2 Course Content/Study Topic:

Credits (lecture-practice-self study hours)

7.2.1 Compulsory Courses, 9 credits

SE601	Smart Logistics and Supply Chain Systems	3(3-0-9)
SE602	Production Logistics	3(3-0-9)
and		
ES610	Research Methods and Communications	3(3-0-9)
or		
ES605	Research Methodology	2(2-0-6)
ES606	Research Seminar	1(1-0-3)

7.2.2 Compulsory Elective Courses

7.2.2.1 Option I: Supply Chain Systems Engineering

1) Study Plan A2, 15 credits

SE600 Decision Making and Optimization	3(3-0-9)
or ET600 Numerical Methods for Engineers	3(3-0-9)
or ICT600 Computational Mathematics	3(3-0-9)
and	
SE61x or SE63x Technical Elective Course*	3(3-0-9)
SE61x or SE63x Technical Elective Course*	3(3-0-9)
SE61x or SE63x Technical Elective Course*	3(3-0-9)
SE61x or SE63x Technical Elective Course*	3(3-0-9)

List of Technical Elective Courses for Supply Chain Systems Engineering

* For Study Plan A2, select 4 courses (12 credits) from the following courses.

SE610 Simulation Modeling and Analysis in Supply Chain	3(3-0-9)
SE611 Procurement Logistics	3(3-0-9)
SE612 Laws and Regulations in Logistics	3(3-0-9)
SE613 Transportation Systems Design and Analysis	3(3-0-9)
SE614 Warehouse Design and Operations	3(3-0-9)
SE615 Operations Scheduling	3(3-0-9)
SE616 Design of Experiments in Supply Chain Systems	3(3-0-9)

SE617 Accounting and Financial Management for Logistics and Supply Chain Systems 3(3-0-9)

SE618 Logistics Case Study Analysis 3(3-0-9)

SE619 Physical Network Design 3(3-0-9)

SE630 Special Topics in Logistics and Supply Chain Systems I 3(3-0-9)

SE631 Special Topics in Logistics and Supply Chain Systems II 3(3-0-9)

SE632 Current Topics in Logistics and Supply Chain Systems I 3(3-0-9)

SE633 Current Topics in Logistics and Supply Chain Systems II 3(3-0-9)

SE634 Artificial Intelligence and Data Analytics in Supply Chain Systems 3(3-0-9)

SE635 Business Intelligence 3(3-0-9)

7.2.2.2 Option II: Services Science and Engineering

1) Study Plan A2, 15 credits

SE600 Decision Making and Optimization 3(3-0-9)

or ET600 Numerical Methods for Engineers 3(3-0-9)

or ICT600 Computational Mathematics 3(3-0-9)

and

SE62x or SE64x Technical Elective Course* 3(3-0-9)

SE62x or SE64x Technical Elective Course* 3(3-0-9)

SE62x or SE64x Technical Elective Course* 3(3-0-9)

SE62x or SE64x Technical Elective Course* 3(3-0-9)

List of Technical Elective Courses for Services Science and Engineering

* For Study Plan A2, select 4 courses (12 credits) from the following courses.

SE620	Services Science and Engineering	3(3-0-9)
SE621	Human Resources and Marketing Management	3(3-0-9)
SE622	Services System Simulation	3(3-0-9)
SE623	Organizational Behavior	3(3-0-9)
SE624	Enterprise Resources Management	3(3-0-9)
SE625	Intermediate Resource Economics	3(3-0-9)
SE626	Strategic Marketing Management	3(3-0-9)
SE627	IT Project Management	3(3-0-9)

SE640	Special Topics in Services Science and Engineering I	3(3-0-9)
SE641	Special Topics in Services Science and Engineering II	3(3-0-9)
SE642	Current Topics in Services Science and Engineering I	3(3-0-9)
SE643	Current Topics in Services Science and Engineering II	3(3-0-9)

7.2.3 Master's Thesis/Independent Study

Plan A2

SE801

Thesis 12

8. Graduation Condition:

8.1 Plan A2

Students must meet the following minimum requirements**:**

8.1.1 Twenty**-**four credits of courses required by the curriculum with a cumulative GPA of at least 3**.**00**.** In addition, the grade of each of these courses must be at least **"**C**."**

8.1.2 Twelve credits of thesis work with grade **"**S**"** and passing a thesis defense**.**

8.1.3 Approval of the thesis by the Thesis Committee**.**

8.1.4 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, 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**.**

8.1.5 Having satisfied one of the following English proficiency requirements**:**

- IELTS score of not less than 6.5
- Institutional TOEFL score of not less than 550

- TOEFL **(**Internet-Based Test-IBT**)** of not less than 79, or TOEFL **(**Internet-Based Test-IBT**)** Home Edition of not less than 79, or TOEFL **(**Paper-Based Test-PBT**)** of not less than 550
- TU-GET **(**Paper-Based Test-PBT**)** of not less than 550, or TU-GET **(**Computer-Based Test-CBT**)** of not less than 79
- TOEIC score of not less than 750 and he/she must also pass an English efficiency evaluation by an SIIT native English speaking instructor
- TU005 English 1 and TU006 English 2 grades of P **(**Pass**)**

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**.**

9. Qualification:

Applicants' qualification	**Master of Engineering Program in Logistics and Supply Chain Systems Engineering**
	Plan A2
Education level	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 a research work published or accepted for publications, or a research experience, or a working experience, or qualifications specified by the SIIT Executive Committee.
Work experience	If any
Engineering and Technology	If any

research experience	
English language proficiency	An applicant must submit an official score for one of the following English language tests**:** • TOEFL score of not less than 400 **(**paper**-**based**)**, or 32 **(**internet**-**based**)**, or 32 **(**internet**-**based Home Edition**)** • Institutional TOEFL score of not less than 400 • IELTS score of not less than 4.5 • TU-GET score of not less than 400 (paper-based) or 32 (computer-based) • TOEIC score of not less than 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 proficiency tests, and meet the requirements set by the institute**.** 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**.**
Special qualification	-

10. 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 with at least GPA. 2.75
4. A copy of an official certificate of English proficiency, as follows (if any):
   TOEFL (PBT 400+) or (IBT 32+) or (IBT Home Edition 32+) or IELTS 4.5+, or
   TU-GET PBT 400+, or CBT 32+ 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.)

Contact:

Associate Professor Dr. Jirachai Buddhakulsomsiri
Chairperson of curriculum
Tel: +66-2-986-9009, +66-2-986-9101, +66-2-564-3226 # 2108
Email: jirachai@siit.tu.ac.th

Ms. Sirikanya Kaewthep
Senior Admission Staff
Tel: (+66) 2 9869009 # 1006
E-mail: admission@siit.tu.ac.th, sirikanya@siit.tu.ac.th

Ms. Suchaya Rattanangam
Chief of Scholarships and Student Discipline Section
Tel: (+66) 2 9869009 # 1403
E-mail: saf@siit.tu.ac.th, suchaya@siit.tu.ac.th