

Diskusi tentang Kurikulum Pendidikan Logistik / SCM

Nyoman Pujawan, Ph.D, CSCP

Professor of Supply Chain Engineering, ITS, Indonesia

President, Indonesian Supply Chain & Logistics Institute (ISLI)

E-mail: pujawan@gmail.com

Latar Belakang

- Mulai banyak perguruan tinggi yang menyelenggarakan pendidikan terkait dengan bidang Logistik / SCM di Indonesia (di negara maju sudah lebih awal).
- Bidang Logistik / SC bisa berkembang dari berbagai disiplin dengan fokus yang berbeda-beda.
- Dibutuhkan komunikasi antar penyelenggara pendidikan untuk saling sharing pengalaman, best practice, kurikulum, dsb.

ISLI

Institut Supply Chain & Logistik Indonesia
Indonesian Supply Chain & Logistics Institute

Didirikan tahun 2016 sebagai perkumpulan akademisi, peneliti, mahasiswa atau praktisi pada bidang supply chain dan logistik yang memiliki kontribusi pada riset dan pengembangan.

Visi dan Misi

Visi

Menjadi organisasi terkemuka di Indonesia untuk berkomunikasi dan berbagi ilmu pengetahuan dan hasil-hasil penelitian maupun inovasi pada bidang supply chain dan logistik.

Misi

- Meningkatkan kualitas dan ketersebaran wilayah penelitian dan pendidikan bidang manajemen logistik dan rantai pasok.
- Meningkatkan konteks penelitian untuk mendukung perbaikan praktek bisnis maupun kebijakan pemerintah.

Pengurus ISLI (2016 – 2019)

Dewan Pertimbangan

Prof. Dr. Senator Nur Bahagia	(ITB - Ketua)
Prof. Dr. T. Yuri Zagloel	(UI)
Prof. Dr. Marimin	(IPB)
Prof. Dr. Joniarto Parung	(Ubaya)
Yusmar Anggadinata	(ITB, Associate Researcher)

Dewan Eksekutif

Ketua Umum	: Prof. Dr. I Nyoman Pujawan, CSCP (ITS)
Sekretaris	: Dr. Ana Maria Sriasih (UGM)
Wakil Sekretaris	: Dr. Carles Sitompul (UNPAR)
Bendahara	: Oki Anita Candra Dewi, ST., MT. (UISI)
	Agustina Eunike, ST., MT. (Brawijaya)

Pengurus ISLI

Bidang Pendidikan

Dr. Andi Cakravastia (ITB)

Dr. Asep Ridwan (Untirta)

Bidang Penelitiandan Publikasi

Dr. Ahmad Rusdiansyah, CSCP (ITS)

Dr. Gede Agus Widyadana (Petra)

Dr. Tomy Perdana (UNPAD)

Bidang Organisasi dan Keanggotaan

Dr. Wahyudi Sutopo (UNS)

Dr. The Jin Ai (Atmajaya Jogja)

Bidang Pengembangan Kompetensi

Dr. Hoetomo Lembito (IPB)

Dr. Rika Ampuh Hadiguna (Andalas)

Bidang Hubungan Industri dan Pemerintah

Dr. Kuncoro Harto Widodo (UGM)

Dr. Sulfitra (Tanjung Pura)

Bidang Kegiatan Kemahasiswaan

Dr. Magdalena Wullur (Unsrat)

Dr. Emirul Bahar (Gunadarma)

Bidang Konvensi

Dr. M. Rusman (UNHAS)

Dr. Naniek Utami Handayani, S.Si, M.T (UNDIP)

Anggota ISLI

Sekitar 215 an akademisi dari berbagai perguruan tinggi.

Sekitar 180 an mahasiswa tersebar di 50+ kampus di dalam dan luar negeri yang saat ini menjadi terdaftar sebagai Mahasiswa SCL (Sekaligus menjadi anggota mahasiswa ISLI).

Anggota dari luar akademisi dan mahasiswa, sedang didefinsikan dan akan diundang untuk bergabung di masa mendatang.

Kegiatan ISLI



Maret 2016, ITS



Oktober 2016, ITB



Teaching Workshop
Feb. 2017

Student Camp
Feb. 2017





Jakarta (U. Trisakti)



Surabaya (ITS)

Peluncuran Majalah Catatan SCL

Makassar (Unhas)



Bandung (STIMLOG)



Jogjakarta (UGM)





Research workshop di UGM, 9 – 10 Mei 2017



Seminar Nasional Supply Chain dan Logistik Indonesia 2017

ISLI – UNHAS, Makassar | 17 – 20 September 2017

Seminar Nasional ini merupakan agenda pertama dari Institut Supply Chain dan Logistik Indonesia (ISLI) yang terbentuk sejak tahun 2016. Seminar ini akan dilaksanakan di Universitas Hasanuddin Makassar dengan tema "Peluang dan Tantangan Logistik Maritim di Indonesia". Kami mengundang peserta dan pemakalah yang menyajikan berbagai topik pada bidang Supply Chain dan Logistik.

Conference Programs

17-18 September 2017

Lolai Toraja "Negeri di atas Awan"

19 September 2017

Seminar Nasional ISLI Pertama 2017

Fakultas Teknik Universitas Hasanuddin - Gowa

20 September 2017

Site Visit "Makassar New Port -Pelindo IV (Persero)"

Critical Dates

30 April

Batas akhir pemasukan Abstrak

15 Mei

Notifikasi Abstrak diterima

15 Juni

Makalah Lengkap

30 Juni

Notifikasi Makalah diterima

31 Juli

Batas Akhir pendaftaran

19 – 20 September

Pelaksanaan conference

Contact Person

Syarifuddin M. Parenreng (0811 4159 25)

Muhammad Rusman (0812 4141 2828)

Naniek Utami Handayani (0815 7108 659)

Information

Web : <http://conference.unhas.ac.id/isli2017>

Email : isli2017@tiunhas.net

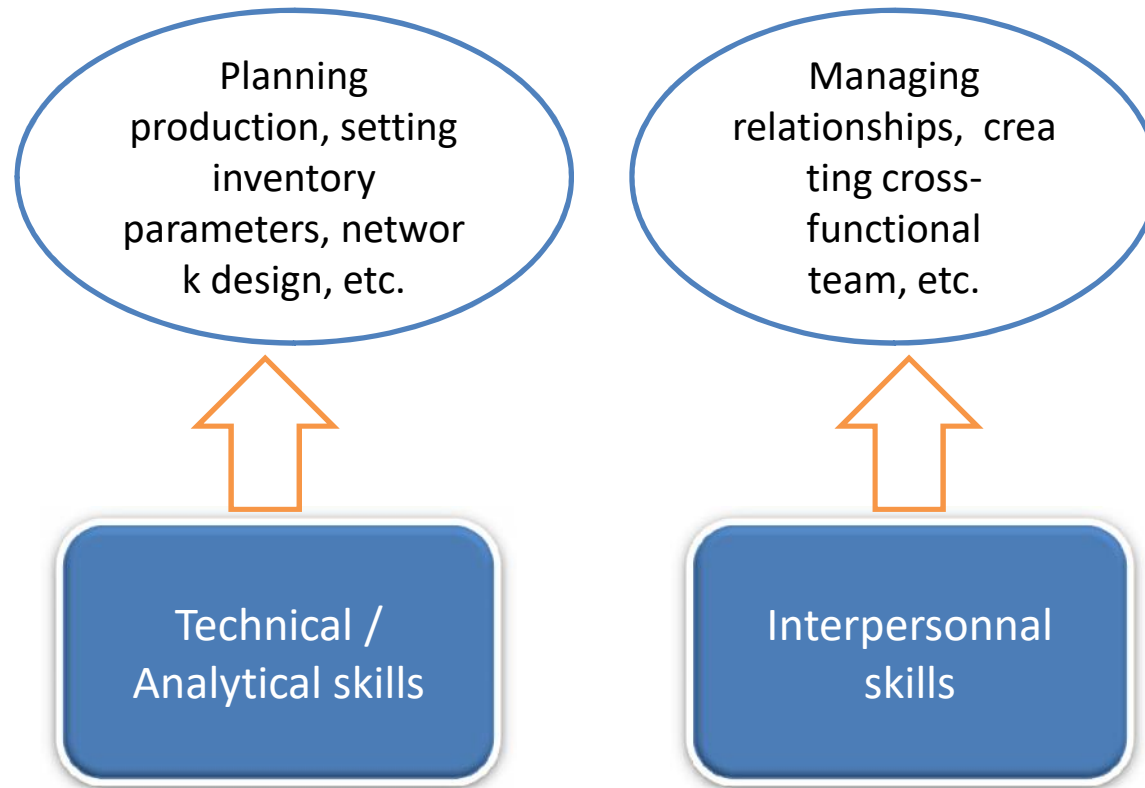
Seminar Nasional

UNHAS, 17 – 20 Sept 2017

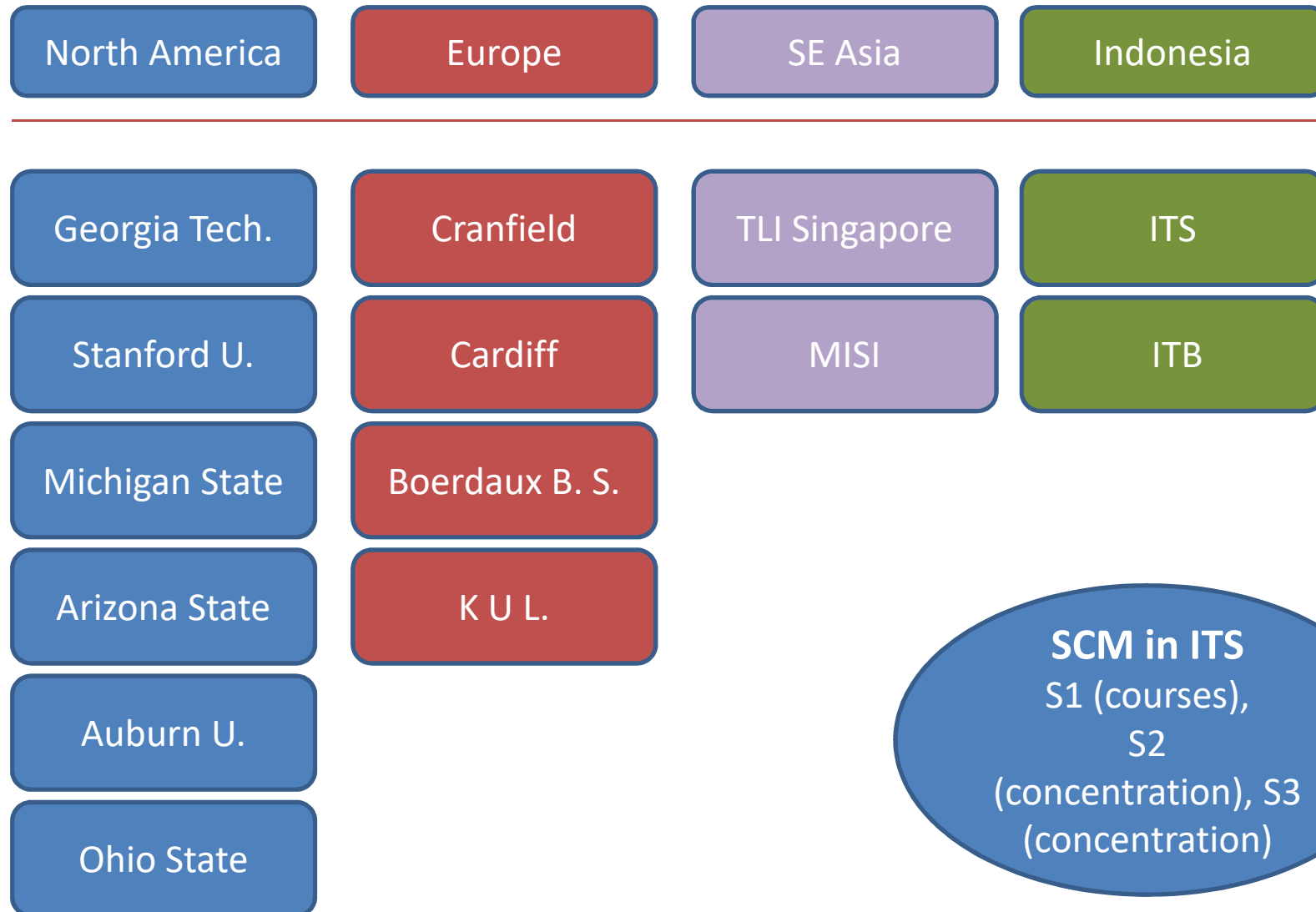


Pendidikan Logistik / SCM di berbagai belahan dunia

SC Manager Profile



Development of SCM Education in Some Universities / Regions



MSU: SCM Major

1. Business Core Curriculum & Degree Requirements

2. Major Field Requirements: 2.0 Minimum GPA Required

All of the following

SCM 371: Procurement and Supply Chain Management: 3 credits

SCM 372: Manufacturing Planning and Control: 3 credits

SCM 373: Logistics and Transportation Management: 3 credits

One of the following

SCM 470: Supply Chain Application and Policy (Tier II): 2 credits

SCM 472: Supply Chain Industry Applications (Tier II): 3 credits

Four credits from the following major selections.*

SCM 460: Procurement Contracting: 1 credit

SCM 461: Customs, Compliance & Security: 1 credit

SCM 462: End-to-End SCM Simulation Using SCODE: 1 credit

SCM 463: SAP Supply Chain applications: 1 credit

SCM 474: Negotiations: 2 credits* – or – MGT 475: Negotiation and Conflict: 3 credits

SCM 475: Supply Chain Decision Modeling: 2 credits

SCM 476: Transportation Management: 2 credits

SCM 479: Advanced Topics in Supply Chain Management: 2 credits

University of Hong Kong

Semester 1	(18 credits)
Healthy Lifestyle#	0
CAR I#	3
English I (LCR I)#	3
Leadership & Intra-Personal Development#	3
Information Technology (ENG2003)	3
Basic Mathematics I - Calculus and Probability & Statistics (AMA1110)	3
Freshman Seminar for Engineering (ENG1003)	3

Semester 2	(15 credits)
Healthy Lifestyle# – cont'd	0
CAR II#	3
English II (LCR II)#	3
Introduction to Enterprise Computing (ISE2001)	3
Introduction to Logistics Engineering (ISE246)	3
Fundamental of Enterprise Systems (ISE247)	3

Semester 1	(18 credits)
Chinese Communication# (LCR III)	3
CAR III#	3
Management and Organization (MM2021)	3
Introduction to Marketing (MM2711)	3
Engineering Economics (AF3625)	3
Technology and Applications of E-Business Systems (ISE328)	3

Semester 2	(12 credits + 2 IC training credits)
Introduction to Shipping and Transport Logistics Operations (LGT2009)	3
Accounting for Decision Making (AF2111)	3
Human Resources Management (MM3111)	3
Free Elective 1*	3
Computer Tools in Resources Planning and Analysis (IC2129)	2 IC training credits

Semester 1	(15 credits + 1.5 IC training credits)	Semester 2	(16 credits + 1.5 IC training credits)
Industrial Engineering Techniques and Methods (ISE318)	3	Professional Communication in English (ELC3521)	2
Packaging and Storage Technology (ISE373)	3	Professional Communication in Chinese (CBS3241P)	2
Logistics Facility Design (ISE374)	3	Mobile Technologies for Logistics Systems (ISE449)	3
Planning for Production and Services Systems (ISE3002)	3	Management Science (LGT3102)	3
Service-Learning#	3	Legal Aspect of E-Business in Logistics (LGT4015)	3
Integrated Project (IC3103)	1.5 IC training credits	CAR IV#	3
		Integrated Project (IC3103) - cont'd	1.5 IC training credits

Semester 1	(15 credits + 1 IC training credit)
Production Logistics (ISE448)	3
Simulation of Logistics Systems (ISE450)	3
Logistics Information Management (ISE460)	3
Supply Chain Management (LGT4106)	3
Individual Project (ISE4008)	3
ERP Advanced (IC2126)	1 IC training credit

Semester 2	(12 credits)
Society and the Engineer (ENG3004)	3
Project Management (ENG4001)	3
Green Legislation and Supply Chain Logistics (ISE461)	3
Individual Project (ISE4008) – cont'd	3

Master's in Supply Chain Management (MSU)

- **SCM 848 Analysis of Supply Markets and Supplies (2 credits)**
- **SCM 870 Introduction to Logistics and Supply Chain Mngmt (3 Credits)**
- **SCM 871 Applied Data Analysis (3 credits)**
- **SCM 872 Distribution Fulfillment (2 credits)**
- **SCM 874 Total Quality Management and Lean Enterprise (3 credits)**
- **SCM 875 Manufacturing Planning & Control (2 credits)**
- **SCM 876 Logistics Operations Methods and Systems (2 credits)**
- **SCM 879 Supply Chain Mngmnt – Strategy and Applications (3 credits)**
- **SCM 881 Global Supply Chain Management (3 credits)**
- **SCM 882 Field Study/Research Project (5 credits)**
- **SCM 883 Technology and Product Innovation Management (2 credits)**
- **SCM 886 Strategic Sourcing (2 credits)**
- **COM 874 Communication in Supply Chain Management (2 credit)**
- **MGT 875 Change Management (2 credits)**

Georgia Tech (Master Program)

- Operations Research for Supply Chain I
- Operations Research for Supply Chain II
- Supply Chain Engineering I (inventory, warehousing)
- Supply Chain Engineering II (Transportation)
- Supply Chain Engineering III (supply chain collaboration and coordination)
- Supply Chain Strategy (Case Studies)
- Supply Chain Information Systems
- Seminar in Supply Chain Engineering (industry speakers)
- Capstone Project I (industry sponsored)
- Capstone Project I (industry sponsored)

Master in Supply Chain Analytics (Rutgers)

- Operations Analysis
- Data Analysis and Decision Making
- Analytics for Business Intelligence
- Management Skills – Professional Development
- Global Procurement and Supply Management or Supply Chain Finance
- Introduction to Project Management
- Lean Six Sigma
- Supply Chain Solution w/ SAP I
- Supply Chain Analytics
- Elective I
- Elective II
- Industry Client Projects

Master in Transportation and Logistics (DTU)

- **Logistics and Transport Optimization**
- **Transport Planning and Sustainability**
- **Smart Mobility and Transport Modelling**
- **Railway Management and Engineering**

Fundamentals	27
TIL Research and Design Methods	7
TIL Seminars	1
Transportation and Spatial Modelling	6
Statistical Methods for Behavioural Choice Analysis	5
Introduction Transport Engineering and Logistics	3
Quantitative Methods for Logistics	5

TU Delft (Transport, Infrastructure and Logistics)

Specialisations	26-27		
<i>Policy</i>	<i>Design</i>	<i>Operations</i>	<i>Engineering</i>
Assessment of Transport Infrastructure and Systems	Advanced Transportation Modelling	Traffic Flow Theory and Simulation	Freight Transportation Systems: Analysis and Modelling
Transport & Spatial Planning for Urbanized Regions	Planning and Operations of Public Transport Systems	Innovations in Dynamic Traffic Management	Logistics and Supply Chain Innovations
Advanced Evaluation Methods for Transport Decision-making	Railway Operations and Control	Intelligent Vehicles for Safe + Efficient Traffic: Design+Assessm.	Multimodal Freight Transport Policy
Designing Transport Policies	Travel Behaviour Research	Simulation Master Class	Coordination for Real-time Logistics
Infrastructure and Environment Method Module	Airline Planning & Optimization	Delft Systems and Simulation Approach	Intelligent Control for Transport Technology
People, Movement and Public Space	Airport Operations	Automated Driving, Automotive Human Factors & Safety	Advanced Operations and Production Management

Electives	26-27	<i>Transport & Planning</i>	<i>Transport & Logistics</i>	<i>Transportation Engin. & Logistics</i>
		≥ 1 course	≥ 1 course	≥ 1 course
<i>External</i>		<i>Control & Operations</i>	<i>Urbanism</i>	<i>Other TIL fields</i>
		≥ 1 course	≥ 1 course	≥ 1 course
		or	or	
				<i>Free electives & projects optional</i>

Courses provided by:

- MSc Civil Engineering
- MSc SEPAM
- MSc Mechanical Engineering
- MSc TIL
- MSc Aerospace Engineering
- MSc Architecture

OPERATIONS AND SUPPLY CHAIN ENGINEERING International Program (ITS)

Thesis (6)

SM IV
[6]

Seminar on Professional
Developments (2)

Internship (4)

SM III
[6]

Supply Chain
Engineering (3)

Quality Engineering
(3)

Contemporary
Logistics (3)

Research
Methodology (2)

SM II
[11]

Advanced
Statistics (2)

Advanced O R
(3)

Advanced PPIC
(3)

Cost & Investment
Management (2)

Advanced
Manufacturing
Systems (3)

SM I
[13]

Fokus Pendidikan Logistik

Agriculture

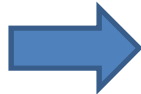
Manufacturing

Energy / Oil
and Gas

Energy / Oil
and Gas

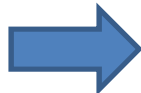
Healthcare

Operations



Banyak Perguruan Tinggi

Supply
Management



ASU

Transportation



Technical University of Denmark

IS/IT

Marketing



MSU

Program Studi Terkait Logistik / SCM di Indonesia

- Teknik Industri (Logistik / SCM diberikan dalam beberapa kuliah)
- Teknik Industri (Logistik / SCM sebagai konsentrasi)
- Teknologi Pertanian
- Manajemen / Bisnis
- Transportasi / Transportasi Laut
- Teknik Sipil (Construction SC)
- Teknik Logistik
- Manajemen Logistik
- Manajemen Bisnis
- Sistem Informasi
- Magister Manajemen

Gambaran Program Logistik / SCM / Transport di Indonesia

- Berasal dari disiplin yang berbeda
- Mayoritas dari Teknik Industri
- Sedikit di transportasi
- Sedikit dari sisi tata ruang, infrastruktur, dan ekonomi pembangunan
- Kurang di penguatan aspek komoditas
- Kurang di kemampuan perancangan alat, fasilitas, dan sistem.

Ke Depan

- Fokus bukan pada standarisasi namun mencari fokus yang berbeda yang sesuai kebutuhan pembangunan.....
- Perlu forum-forum untuk sharing kurikulum, proses pembelajaran, dan penelitian....
- Logistik / Supply Chain adalah persoalan interdisiplin, sehingga perlu penguatan di program magister.
- Butuh lebih banyak yang memiliki kemampuan perancangan (seperti kemampuan merancang layout gudang, faham teknik racking, faham alat-alat MH, faham berbagai aspek packaging secara mendalam....)