

Course Syllabus
EGLS 500 Principle Logistics and Supply Chain Engineering Management
Semester 1 Academic Year 2018

Course ID and name: EGLS 500 Principle Logistics and Supply Chain Engineering Management

Course coordinator: Asst.Prof. Dr. Assadej Vanichchinchai

Instructors: Academic Staffs

Credits: 3(3-0-6)

Curriculum: Master of Engineering Program in Logistics and Supply Chain (Special Program)

Semester offering: First semester

Prerequisite: None

Course Description:

Core components; Business process, patterns and modern techniques in logistics and supply chain engineering management; Stakeholders in supply chain; Ethics of stakeholders in supply chain; Logistics and supply chain engineering management strategy; Supply chain management for competitiveness; Integration between engineering and management in supply chain; Performance measurement; information and technology; Interesting topics and case study in supply chain engineering management

Course Learning Outcomes (CLOs)

At the end of the course, the students will be able to

1. create academic work with integrity in fundamental logistics and supply chain engineering management.
2. efficiently apply fundamental principles of inventory, warehouse, and transportation and distribution management
3. apply knowledge of fundamental logistics and supply chain engineering management in industry and service improvement
4. systemically analyze problems and propose solutions in fundamental logistics and supply chain engineering management via research methodology
5. work as a team with other disciplines related to fundamental logistics and supply chain engineering management
6. communicate and select suitable method for presentation in fundamental logistics and supply chain engineering management

Constructive Alignment of CLO s and Program s ELO s

CLOs	ELO1	ELO2	ELO3	ELO4	ELO5	ELO6
1	I, R					
2		I, R				
3			I, R			
4				I, R		
5					I, M	
6						I, P

I = ELO is introduced & assessed

R = ELO is reinforced & assessed

P = ELO is practiced & assessed

M = Level of Mastery is assessed

Course Schedule:

No.	Topic	Teaching & Learning Strategy	Assessment	Instructor
1	Introduction to Logistics and Supply Chain Engineering and Management	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
2	Strategic Logistics and Supply Chain Management Concept	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
3	Strategic Inventory Management	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
4	Warehouse Management	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
5	Procurement and Outsourcing Strategy	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
6	Logistics and Supply Chain Case Study and Software	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
7	Distribution Network Planning	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
8	Distribution Strategy	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
9	Strategic Alliance in Supply Chain	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
10	Supply Chain Integration	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
11	Value of Information and Bullwhip Effect	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
12	Development Chain	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
13	Global Logistics and Risk Management	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
14	Group Work Presentation	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai
15	Case Study, Guest Speaker	Lecture, Case Study, Discussion	Q&A, feedback	Asst.Prof. Dr. Assadej Vanichchinchai

Assessment Criteria

Class participation	10%
Individual work	20%
Group work	20%
Final examination	50%

Appeal Procedure

Should the students have any appeal regarding the assessments or grade, inquiry can be made to the instructors and/or the course coordinator immediately either by direct contact, telephone or email.

Study Material

Simchi_Levi, D, Kaminsky, P. and Simchi-Levi, E. 2008. Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies. 3rd ed. McGraw-Hill. NY

Bowersox, D.J., Closs, D.J. and Cooper, M.B. (2010). Supply Chain Logistics Management. McGraw-Hill. Singapore

Russel, R.S. and Taylor III, B.W. (2014). Operations and Supply Chain Management. 8th edition. John Wiley & Sons. Singapore