

DSC5211A SUPPLY CHAIN COORDINATION AND RISK MANAGEMENT

AY2014/2016 Semester 1

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COURSE DESCRIPTION

Supply chains have become far-flung and global. At the same time, increasing macroeconomic volatility and uncertainty create a more difficult operating environment for companies. Companies will have to look at the design of the supply chain to improve both system and process flexibility, as well as to work with others to improve overall coordination and to manage and share risks.

The growth of emerging markets, evolving government regulations, and regional trade agreements will further impact the structure of a company's operations.

LEARNING OUTCOMES

This course aims to expose students to the design, integration, and execution of an agile and responsive supply chain. Through case studies, simulation game, and project work, students will gain a better understanding of corporate strategies and supply chain alignment.

TOPICS

- 1) Key supply chain concepts and strategies
- 2) Global supply chain configuration and re-alignment
- 3) Planning for supply chain risk and disruption
- 4) Impact of e-commerce and technology on business models and supply chains
- 5) Simulation game
- 6) Managing supply chains globally:
 - a. The impact of macroeconomic trends and regulations
 - b. Managing supply chains in emerging markets
- 7) Group project

READINGS

Textbook: Supply Chain Management: A Concise Guide, 2nd Edition, by Puay-Guan Goh,

Pearson 2015

Article readings: Refer to Course Schedule

PREREQUISITE



Nil

PRECLUSION

Nil

ASSESSMENTS

Components	Weight
Individual Assignment	15%
Midterm Test	25%
Class Participation	10%
Group Simulation Game	20%
Group Project	30%
Total	100%

COURSE SCHEDULE

Instructional Week	Content	Cases / Examples	Reading (s)	Deadlines
1	Course Introduction		Goh Chp 1	
14 Aug				
			"McDonald's and	
			the Challenges of	
			a Modern Supply	
			Chain"	
			""Xiaomi May	
			Turn Away Nine	
			Out of 10 People	
			Who Want a Mi4	
			In Its First India	
			Sales"	
2	Managing	Case: HP	Goh Chapter 2	
21 Aug	procurement and	procurement risk		
	procurement risks	management	"Now Showing at	
			Blockbuster: How	
	Sourcing	Case: Aggregated	Revenue-sharing	
	segmentation	Demand at	Contracts Improve	
		Samsung	Supply Chain	
	Procurement	Electronics	Performance"	
	contracts			
		Case: Risk sharing	"Karl Kempf,	
		contracts at	Intel's Money-	



		Stainless	Saving	
		Structurals Asia	Mathematician"	
3	Manufacturing	Case: Push-pull	Goh Chapter 3	Submission of
28 Aug	strategies and	strategy at Dell	don chapter 5	teams for
207105	product design	and Lenovo	"Yamaha Plans to	projects and
	product decign	G. 1. G. 2011010	Sell \$500	simulation
	Supply chain flexibility	Case:	Motorcycle in	game
	,	Modularization at	India"	
	Changing product	Hyundai Mobis		
	design paradigms		"Appliances For	
		Case: P&G's	Everyone"	
		detergent wars		
		Case: Targeting		
		new customer		
		segments at HTC,		
		and Haier		
4	Integrated supply	Case: ST Logistics	Goh Chapter 4 and	Finalization of
4 Sep	chains	– Distributing	Chapter 5	teams for
		consumer goods in	//=! 5	projects and
	Total landed cost	China	"The Downside of	simulation
	Nia dia dia dia dia	Con Dalda ala	Just-in-Time	game
	New distribution	Case: Dabbawala –	Inventory"	A a a i a m m a m t 1
	methods	distribution in India	"15,000 robots	Assignment 1 due
	Inventory risk	IIIuia	usher in Amazon's	due
	management	Case: Kiva systems	Cyber Monday"	
	management	Case. Riva systems	Cyber Worlday	
	Is keeping more		"Wahaha	
	inventory always bad?		China's Leading	
			Beverage	
			Producer"	
5	Global supply chain	Case: HP	Goh Chapter 5 and	Release of
11 Sep	realignment	restructures its	Chapter 6	Simulation
	501	CD-RW supply	// -	Game scenario
	FDI considerations	chain	"The future of	
	Cumply Chain alvetons	Casallandan	Factory Asia: A	
	Supply Chain clusters	Case: London Metal Exchange in	Tightening Grip"	
	New distribution	North Asia	"Foxconn plans	
	capabilities and		10-12 new Indian	
	innovations emerge		facilities by 2020:	
			chairman"	
	Explanation of			
	Simulation Game		"Four Reasons	
			Mexico Is	
			Becoming a Global	
			Manufacturing	



			Power"	
			I OWEI	
			"China and	
			Europe:	
			Reconnecting	
			Across a New Silk	
			Road"	
6	Planning for supply	Case: Nokia and	Goh Chapter 7	Assignment 2
18 Sep	chain risk and	Ericsson in 2000		due
	disruption		"Ford Curbs Black,	
		Case: Solectron's	Red Paint Use	
	Simulation Game	contingency	Amid Japan Quake	
	Round 1	planning	Shortage"	
		Case: Supply chain	""No magic in how	
		tracking at	Walt Disney	
		Charoen	avoided the risk of	
		Popkhand Foods	US west coast	
			supply chain	
			chaos"	
Recess	Recess Week – no			
Week	class			
25 Sep	Danage of the state of the stat			
7	Deconstructing the	Case: Integrating	Goh Chapter 8 and	
2 Oct	value chain	the value chain at Mentor Media	Chapter 9	
	Outsoucing and	ivientoi iviedia	 'The	
	offshoring	Case: e-Choupal	Democratization	
	on shoring	Case. C Choupai	of Fashion':	
	Integrating	Case: Vertical	William Fung and	
	information and	integration at	Vera Wang on the	
	physical flows	Esquel	Implications of	
		,	Going Global"	
	Simulation Game			
	Round 2			
8	Midterm test			
9 Oct	Sim lati			
	Simulation Game			
0	Round 3	Coco Males and	Cab Charter O	
9 16 Oct	Impact of	Case: Walmart's	Goh Chapter 9	
16 Oct	technologies on business models and	"In-Store" App	"Real-life Star Trek	
(e-learning week)	supply chains	Case: Bossard's	'replicator'	
WEEK)	Supply Clialits	Vendor Managed	prepares meal in	
	Simulation Game	Inventory using	30 seconds"	
	Round 4	Smart Bin	35 30001143	
		J	"Driverless trucks	
	1		2	1



			roam Australian mines"	
			"3-D Printing Will	
			Change the World"	
10	Impact of e-	Case: Kozmos	Goh Chapter 10	
23 Oct	commerce on			
	business models and	Case:	"Anatomy of a	
	supply chains	Amazon.com	Dot- Com"	
	Simulation Game	Case: Flipkart.com	"Crumbling	
	Round 5	·	infrastructure?	
			Etailers like	
	Industry guest		Flipkart, Amazon	
	speaker (TBC)		& eBay are	
			widening logistics	
			networks in India"	
			"Amazon to Open	
			First Brick and	
			Mortar Site"	
11	Managing global	Case: Yamaha uses	Goh Chapter 11	Submission of
30 Oct	supply chains	free trade zones in		simulation
		the USA	"How Rising Fuel	game report
	Impact of		Costs Are	
	macroeconomic	Case: Siam	Transforming	
	developments and	Cement Group	Distribution	
	regulations	and Italcementi	Strategies"	
	Managing aventu	strategies in the		
	Managing supply	cement industry		
	chains in emerging markets	Case: Shortening		
	markets	the Indian supply		
	Simulation game	chain at Panduit		
	review	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
12	Group project			All
6 Nov	presentations			presentations
				and reports due
				before class
42	<u> </u>			starts
13	Group project		Goh Chapter 12	
13 Nov	presentations		"The Naint	
	Course wran up. The		"The Mint	
	Course wrap up: The future of supply chains		countries: Next economic giants?"	
	Tuture or supply chains		economic grants?	