

ME 584: Manufacturing Strategy Fall 2015

<i>Manufacturing Strategy Tools</i>				
#	Date	Subject	Text	Other Reading
1	9/2	Course Introduction	Chapter 1	“Manufacturing the Future: The Next Era of Global Growth and Innovation” , McKinsey Global Institute, 2012.
2	9/9	Process Analysis and Metrics	Chapter 11	“Kristen’s Cookie Co. (A)” , HBS 686093-PDF-ENG, 2006.
3	9/14	Manufacturing Finance and Control	Appendix C	
4	9/16	Business and Operations Strategy	Chapter 2	“Fresh Connections” , HBS 600022-PDF-ENG, 2003.
5	9/21	DfX /Learning Curves	Chapters 3 and 6	“Think Inside the Box: Design for Manufacturing and Assembly” , Appliance, 2014.
<i>Plant Strategy</i>				
#	Date	Subject	Text	Other Reading
6	9/23	Plant Location Homework #1 Due		“Intel: Strategic Decisions in Locating a New Assembly and Test Plant (A)” , 713406-PDF-ENG, 2013.
7	9/28	Types of Processes / Facility Layout	Chapters 7 and 8	“The Seven Deadly Supply Chain Wastes” , Sutherland and Bennett, Supply Chain Management Review, 2008.
8	9/30	Types of Process / Facility Layout (cont.)		“AIC Netbooks: Optimizing Product Assembly” , HBS 4245-PDF-ENG, 2011.
9	10/5	Forecasting and Operations Planning	Chapters 18 and 19	“Wilkins: A Zurn Company: Demand Forecasting” , HBS 906D06-PDF-ENG, 2006.
10	10/7	Capacity Management	Chapter 5	“FoldRite Furniture Company: Planning to Meet a Surge in Demand” , HBS 4555-PDF-ENG, 2010.
11	10/13	Inventory Management	Chapter 20	“Scientific Glass Incorporated: Inventory Management” . HBS 4208-PDF-ENG, 2011.
12	10/14	Six Sigma Quality	Chapters 12 and 13	

13	10/19	Motivating a Workforce		"RL Wolfe: Implementing Self-Directed Teams" , HBS 4063-PDF-ENG, 2009.
14	10/21	Mid-Term		
<i>Supply Chain Strategy</i>				
#	Date	Subject	Text	Other Reading
15	10/26	Introduction to Supply Chains Homework #2 Due		"Evolution of the Xbox Supply Chain" , HBS GS49-PDF-ENG, 2006.
16	10/28	Lean Production and Lean Supply Chains	Chapter 14	"Value Stream Mapping" , Womack, Manufacturing Engineering, May 2006. "Mapping the Value Stream" , Lovelle, IEE Solutions, 2001.
17	11/2	Lean Production and Lean Supply Chains (cont.)		"Toyota Motor Manufacturing, U.S.A., Inc." HBS 693019-PDF-ENG, 1995.
18	11/4	Logistics	Chapter 15	
19	11/9	Global Sourcing and Procurement	Chapter 16	"The Bullwhip Effect in Supply Chains" , Lee, Padmanabhan and Whang, Sloan Management Review, 1997.
20	11/11	Global Sourcing and Procurement (cont.)		"Barilla SpA" , HBS694046-PDF-ENG, 2008.
21	11/16	ERP and MRP	Chapters 17 and 21	
22	11/18	Reverse Logistics		"Why Things Fail: From Tires to Helicopter Blades, Everything Breaks Eventually" , Wired, 2011.
<i>Special Topics</i>				
#	Date	Subject	Text	Other Reading
23	11/23	Sustainable Manufacturing Homework #3 Due		"Han Solar and the Green Supply Chain" , HBS B5723-PDF-ENG, 2012.

24	11/30	Social Responsibility and Ethics		<p>“Kitchen Best: Ethics When Doing Cross-Boundary Business in Southern China”, HBS HKU 948-PDF-ENG, 2011.</p> <p>“Key Events in GM Ignition Switch Recall”, NY Times, 2014.</p> <p>“Highlights from General Motors Investigation”, NY Times, 2014.</p>
25	12/2	Advanced Manufacturing Technology		“Breakthrough Factories” , MIT Technology Review Business Report, 2014.
26	12/7	Advanced Manufacturing Technology (cont.)		
27	12/9	Advanced Manufacturing Technology (cont.)		.