Subject Code	LGT6007
Subject Title	Digital Supply Chain Management
Credit Value	3
Level	6
Normal Duration	1-semester
Pre-requisite / Co-requisite/ Exclusion	Nil
Objectives	The course focuses on operations management issues in supply chains and logistics under Industry 4.0. The course objectives are to learn recent best practices in supply chain management, and to develop analytical skills for DFintech research in this area. Skill development is accomplished through lectures, individual assignments, group presentations, and case studies. This subject contributes to the achievement of the DFintech program outcomes by a) deepening students' knowledge of supply chain and logistics management in the digital era and b) acquiring an in-depth knowledge of digital technologies in the financial industry (Outcome 2).
Intended Learning Outcomes	 Upon completion of the subject, students will be able to: a. Understand the strategic importance of logistics and product supply chain management in improving a firm's competitive position; b. Understand the impact of supply chain management principle on a firm's overall strategy; c. Understand the key characteristics of successful supply chains today and how they differ from the traditional approaches; d. Gain insights into issues involved in the design, planning, and deployment of a supply chain in the digital era; e. Understand the use of analytical tools for logistics, operations, and supply chain management in DFintech research. f. Appreciate the importance and innovation of digitization in supply chain
Subject Synopsis/ Indicative Syllabus	 Logistics, supply chain, and competitive advantages The role of inventory in supply chains and basic methodologies for inventory management Supply chain risk mitigation strategies, such as quick response, risk pooling, long-chain flexibility, etc. Value of information and information sharing in supply chains Distribution strategies Supply chain coordination Procurement and outsourcing

 Supply chain finance Supply chain innovations, such as ecommerce, omni-channel retail sharing economy, crowdfunding, big data analytics, blocke technology, last-mile logistics, etc Ethical issues, sustainability, and corporate social responsibility supply chain and logistics operations Teaching/Learning Methodology Lectures to introduce concepts, theories, management issues, methodologies. Case study and group discussion: make connections of the contents from lectures with real business practices so as to deepen the understanding of concepts, theories, and issues of supply chain management. In-class exercises and take-home assignments: help students to grasp so of the key methodologies and tools; practice some basic analysis skills access their understanding of some basic concepts and analysis skills. Online simulation games: enhance the students' understanding about supchain activities. 	hain hain in and and the f the and opply pply	
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Group project to help students to recognize the key management issues complex real business context and develop systematic approaches solutions to resolve the management problem.	in a and	
Assessment Methods in Alignment with Intended Learning OutcomesSpecific assessment methods/tasks%Intended subject learning outcomes to be assessed (Please tick as appropriate)	% Intended subject learning eighting outcomes to be assessed (Please tick as appropriate)	
a b c d e	f	
Continuous Assessment Assignments (30%) Group Project (30%)60 %✓✓✓✓	~	
Examination 40% \checkmark \checkmark \checkmark \checkmark \checkmark	~	
Total 100 %		
To reflect the significant technology content in this subject, 10% (or me of the overall weighting of this subject is based on individual assessing concerning technology related knowledge	,	

	exam will cover all topics in the syllabus, with a focu understanding of the strategic importance of SCM, successful supply chains, impact of SCM principle on a and supply chain innovations in digital era. It will also test issues involved in the supply chain planning and design fundamental skills for analyzing a supply chain.	us of testing students' key characteristics of firm's overall strategy, t students' insights into n, as well as students'
Student Study Effort	Class contact:	
Expected	Lectures	30 Hrs.
	Other student study effort:	
	 Homework assignments and case studies 	50 Hrs.
	 Reading assignments 	40 Hrs.
	Total student study effort	120 Hrs.
Reading List and References	 Books: DeSmet, B. (2018), Supply Chain Strategy and Financia Chain Triangle Of Service, Cost And Cash, Kogan Page Cachon, G. and Terwiesch, C. (2009), Matching Supplintroduction to Operations Management, 2nd Edition, Mcc Christopher, M. (2016), Logistics and Supply Chain Management, Prentice Hall. Chopra, S. and Meindl, P. (2009), Supply Chain Managemand Operation, 4th edition, Prentice Hall. Cottrill, K. and Harris, P. (2018), Blockchain Meets Supple Business Operations for the Digital Age, Amazon Digital Frazelle, E. H. (2017), Supply Chain Strategy: Unleash th Integration to Maximize Financial, Service, and Operation Edition. McGraw-Hill Education. 	al Metrics: The Supply ply with Demand: An Graw-Hill. agement, 5th Edition, ent: Strategy, Planning ly Chain: Rewiring Service he Power of Business ons Performance, 2nd
	 Ha, A. Y. and Tang, C. S. (2017), Handbook of Informati Supply Chain Management (Springer Series in Supply Chain Springer Hofmann, E. and Strewe, U.M. (2018) Supply Chain Fina Technology: The Case of Reverse Securitisation (Springer Springer. Lysons, K. and Farrington, B. (2016), Procurement and S Management, Pearson Manners-Bell, J. (2017) Supply Chain Risk Management: Emerging Threats to Global Supply Chains, Kogan Page Pettit, S. and Wang, Y. (2016), E-Logistics: Managing Ye 	on Exchange in Dain Management 5), Ance and Blockchain rBriefs in Finance), Supply Chain Understanding Dur Digital Supply

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Simchi-Levi, D., Chen, X. and Bramel, J. (2013), <i>The Logic of Logistics: Theory,</i> <i>Algorithms, and Applications for Logistics Management, Springer Series in</i> <i>Operations Research and Financial Engineering</i> , Springer
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Trent, R., (2015), Supply Chain Financial Management: Best Practices, Tools, and Applications for Improved Performance, J. Ross Publishing
Watson, M. and Jayaraman, J. (2017) <i>Supply Chain Network Design:</i> <i>Understanding the Optimization behind Supply Chain Design Projects</i> , Pearson Educatino, Inc.
Academic Papers: Bolandifar, E., Kouvelis, P., & Zhang, F. (2016). Delegation vs. Control in supply chain procurement under competition. Production and Operations Management, 25(9), 1528-1541.
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Guo, P., Liu, F. & Wang Y. (2019). Optimal Allocation of Reserved Inventories in a Supply Network with Demand Surge. Production and Operations Management, forthcoming
Huang, Y. Y., & Handfield, R. B. (2015). Measuring the benefits of ERP on supply management maturity model: a "big data" method. International Journal of Operations & Production Management, 35(1), 2-25.
Jiang, L., & Hao, Z. (2016). Incentive-driven information dissemination in two- tier supply chains. Manufacturing & Service Operations Management, 18(3), 393-413.
Lam, H. K., Yeung, A. C., & Cheng, T. E. (2016). The impact of firms' social media initiatives on operational efficiency and innovativeness. Journal of Operations Management, 47, 28-43.
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Yi, Z., Wang, Y., Liu, Y., & Chen, Y. J. (2018). The impact of consumer fairness seeking on distribution channel selection: direct selling vs. agent selling. Production and Operations Management, 27(6), 1148-1167.
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