

Syllabus for Integrated Master of Business Administration, 8<sup>th</sup> Semester Subject Class: Elective

Subject Name: Logistics and Supply Chain Management

Subject Code: 2587161

With effective from academic year 2017-18

## 1. Learning Outcomes:

<b>Learning Outcome Component</b>	Learning Outcome (Student will be able to)		
Business Environment and Domain Knowledge (BEDK)	• <i>Analyze</i> the relationship between logistics decisions (e.g., facilities, inventory, and transportation) and the performance of a given firm.		
Critical thinking, Business Analysis, Problem Solving and Innovative Solutions (CBPI)	<ul> <li>Recommend strategies to manage inventories, including decisions regarding the timing and quantity for replenishments without hurting the level of product availability.</li> <li>Estimate best paths to route vehicles to deliver and collect goods at multiple stops.</li> </ul>		
Global Exposure and Cross- Cultural Understanding (GECCU)	• <i>Compare</i> and <i>contrast</i> the developments in supply chain management of various countries.		
Social Responsiveness and Ethics (SRE)	• <i>Identify</i> malpractices prevalent in supply chain management.		
Effective Communication (EC)	• <i>Justify</i> the decisions undertaken to manage logistics and supply chain in a given situation.		
Leadership and Teamwork (LT)	• Analyze a given case / situation in a team and create and explain an optimal and sustainable solution by applying Logistics and Supply Chain Management strategies.		

#### 2. Course Duration: The course duration is of 40 sessions of 60 minutes each.

#### 3 Course Contents:

Module No:	Contents	No. of Sessions	70 Marks (External Evaluation)
I	<ul> <li>Logistics and Supply Chain Management – An Overview:         <ul> <li>Logistics, SCM and the difference between logistics and SCM.</li> <li>Supply chain and value chain</li> <li>Mission of logistics management</li> <li>Value addition by logistics</li> <li>Drivers of supply chain performance</li> </ul> </li> <li>Supply Chain Strategy and Performance Measures:         <ul> <li>Customer service and cost trade-offs</li> <li>Impact of out-of-stock</li> <li>Setting customer service objectives and priorities</li> </ul> </li> <li>Supply chain performance measures</li> <li>Enhancing supply chain performance</li> <li>Outsourcing: Make versus Buy.</li> </ul>	10	18
II	<ul> <li>Logistics Management:</li> <li>Role of Logistics in Supply Chain Management</li> <li>Logistics Service Providers 3PL's &amp; 4PL's</li> <li>Logistics Activities</li> </ul>	10	18



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	Marketing and logistics interface		
	<ul> <li>Logistics cost analysis and total cost analysis</li> </ul>		
	Reducing logistics lead time		
	Packaging and materials handling		
	Designing Transportation Network:		
	<ul> <li>Drivers of transportation decisions</li> </ul>		
	<ul> <li>Modes of transportation</li> </ul>		
	<ul> <li>Design options</li> </ul>		
	<ul><li>Direct shipment network</li></ul>		
	<ul> <li>Direct shipping via milk run</li> </ul>		
	<ul> <li>Distribution centre</li> </ul>		
	<ul> <li>Cross docking</li> </ul>		
	<ul> <li>Shipping via DC using milk runs</li> </ul>		
	<ul> <li>Tailored network</li> </ul>		
	• Routing, scheduling and sequencing in transportation.		
<ul> <li>Vehicle Routing Problems.</li> <li>Route sequencing procedure</li> </ul>			
	<ul> <li>Farthest insert, nearest insert, nearest neighbor,</li> </ul>		
	Sweep		
	Route improvement procedure		
	• 2-OPT and 3-OPT.		
	Reverse Logistics:		
Definition, reasons, benefits			
	• Elements of reverse logistics		
	Closed loop supply chain		
	Network Design:		
	Define the network design process		
	Perform a LSCM Audit		
	• Examine the LSCM network alternatives		
	Conduct a Facility Location analysis		
	Make decisions regarding network and facility		
III	locations  Develop on implementation plan	10	17
1111	Develop an implementation plan.     Modeling Approaches:	10	17
	<ul><li>Modeling Approaches:</li><li>Optimization and simulation models</li></ul>		
	Facility Location		
	Tacinty Location		
	<b>Supply Chain Integration:</b>		
	• Internal and External Integration		
	Supply Chain Restructuring.		
	Synchronous Supply Chain:		
TX7	Virtual supply chain and the extended enterprise	10	17
IV	Quick response logistics     Data of information	10	
	Role of information		



Syllabus for Integrated Master of Business Administration, 8th Semester **Subject Class: Elective** 

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	Agile Supply Chains.		
	Introduction to use of Technology in SCM		
	<ul> <li>Role of Technology in Supply Chain Management</li> </ul>		
	Key Application Tools		
	Strategic Challenges for supply chains.		
	Sustainable Supply Chain Management.		
	Practical:		(30 marks
V	Assignment/Presentation based on the above topics or the selected Industry or Firm.		CEC)

#### 4. Pedagogy:

The course will use the following pedagogical tools:

- Classroom Discussion of Concepts and Applications
- Case Discussions
- Discussion on articles and news from Financial Daily such as Business Standard or Economic Times, blogs and other websites on daily basis
- Management Exercise / Stimulations /Games/ Learning from Movies

#### 5. Evaluation:

Students shall be evaluated on the following components:

	Internal Evaluation	(Internal Assessment- 50 Marks)	
A	<ul> <li>Continuous Evaluation Component</li> </ul>	30 marks	
	<ul> <li>Class Presence &amp; Participation</li> </ul>	10 marks	
	• Quiz	10 marks	
В	Mid-Semester examination	(Internal Assessment-30 Marks)	
С	End –Semester Examination	(External Assessment-70 Marks)	

#### 6. Reference Books:

Sr. No.	Author	Name of the Book	Publisher	Year of Publication
1	Martin Christopher	Logistics and Supply Chain Management	FT Publishing	2016 / 5 <sup>th</sup>
2	Donald J Bowersox, David J Closs,. M. Bixby Cooper, John C. Bowersox	Supply Chain Logistics Management	McGraw Hill	2018 / 4 <sup>th</sup>
3	John J. Coyle, C. John Langley, Brian J. Gibson, Robert A. Novack	Managing Supply Chain: A Logistics Approach	Cengage	2013 / 9 <sup>th</sup>
4	Janat Shah	Supply Chain Management: Text and Cases	Pearson	2016 / 2 <sup>nd</sup>
5	Chopra Sunil, Peter Meindl, Kalra DharamVir	Supply Chain Management : Strategy, Planning, and Operation	Pearson Publishers	2016 / 6 <sup>th</sup>
6	Mr.V.Anandaraj, Dr.S.Ramachandran, Mr.S.Kumaran, Mr.Ishanka Saikia	Supply Chain and Logistics Management	Airwalk	2018 / 1 <sup>st</sup>



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7	D. K. Agarwal	Textbook of Logistics and Supply Chain Management	Trinity	2015
8	Chase Richard B, Shankar Ravi, Jacobs F Robert	Operations and Supply Chain Management	McGraw Hill	2014
9	Russell and Taylor	Operations and Supply Chain Management	Wiley	2016 / 9 <sup>th</sup>
10	Bhat Shridhara K	Supply Chain Management	Himalaya	2010
11	Wisner, Keong Leong and Keah-Choon Tan	Principles of Supply Chain Management A Balanced Approach	Cengage	2018 / 5 <sup>th</sup>
12	James Stevens	Supply Chain Management: Strategy, Operation & Planning for Logistics Management (Logistics, Supply Chain Management, Procurement)	Shepal	2016

Note: Wherever the standard books are not available for the topic appropriate print and online resources, journals and books published by different authors may be prescribed.

### 7. List of Journals / Periodicals / Magazines / Newspapers / Web resources, etc.

- 1. The International Journal of Logistics Management
- 2. International Journal of Logistics Research and Applications
- 3. Journal of Supply Chain Management, Logistics and Procurement
- 4. Logistics and Supply Chain Practices in India
- 5. Supply Chain Management Review
- 6. Inbound Logistics