



**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Programme: Master of Business Administration, 4<sup>th</sup> Semester**  
**Branch: Logistic & Supply Chain Management**  
**Subject Name: Global Logistics and Supply Chain Management**  
**Subject Code: 1549705**

**1. Learning Outcome:**

<b>Learning Outcome Component</b>	<b>Learning Outcome (Learner will be able to)</b>
Business Environment and Domain Knowledge (BEDK)	Evaluate relevance of logistics and supply chain management in international trade.  Identify and chart a global company's key business functions, business processes, and stakeholders.
Critical thinking, Business Analysis, Problem Solving and Innovative Solutions (CBPI)	Examine the levels of risk, efficiency, and sustainability of a supply chain
Global Exposure and Cross-Cultural Understanding (GECCU)	Analyze how interruptions in the global supply chain affect business.  Examine how world-class companies encourage collaboration among international business partners.
Social Responsiveness and Ethics (SRE)	Defend ethical choices of strategy in international trade
Effective Communication (EC)	Communicate effectively in oral and written forms about international supply chain management using appropriate concepts, logic and convention.
Leadership and Teamwork (LT)	Garner managerial insights for various supply chain issues in a variety of industry contexts

**LO - PO Mapping: Correlation Levels:**

1 = Slight (Low); 2 = Moderate (Medium); 3 = Substantial (High), “-“= no correlation

<b>Sub. Code:</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>
LO1: Evaluate relevance of logistics and supply chain management in international trade.	3	-	2	-	3	-	-	1	2
LO2: Identify and chart a global company's key business functions, business processes, and stakeholders.	3	3	1	1	2	1	-	1	1
LO3: Examine the levels of risk, efficiency, and sustainability of a supply chain.	1	-	2	-	1	2	-	1	1
LO4: Analyze how interruptions in the global supply chain affect business.	1	1	1	-	-	-	1	1	1



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LO5: Examine how world-class companies encourage collaboration among international business partners.	2	3	-	-	2	2	1	1	1
LO6: Defend ethical choices of strategy in international trade.	-	-	-	2	1	1	3	-	-
<b>LO7:</b> Communicate effectively in oral and written forms about international supply chain management using appropriate concepts, logic and convention.	1	1	1	3	1	1	-	2	-
<b>LO8:</b> Garner managerial insights for various supply chain issues in a variety of industry contexts.	2	3	-	3	1	3	-	-	1

**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)
<b>I</b>	<b>International Logistics and Supply Chain Management:</b> <ul style="list-style-type: none"> <li>○ International Logistics</li> <li>○ Difference between domestic and international logistics</li> <li>○ International Supply Chain</li> <li>○ International Reverse Logistics</li> <li>○ Factors driving global SCM</li> </ul> <b>International Infrastructure:</b> <ul style="list-style-type: none"> <li>○ Transportation infrastructure</li> <li>○ Port infrastructure</li> <li>○ Canals and waterways infrastructure</li> <li>○ Airport infrastructure</li> <li>○ Rail and road infrastructure</li> <li>○ Warehousing infrastructure</li> <li>○ Communications infrastructure</li> <li>○ Logistics infrastructure</li> </ul>	10	18
<b>II</b>	<b>Global Logistics and Transport Management-I:</b> <ul style="list-style-type: none"> <li>○ Global logistics chain</li> <li>○ Choosing the logistics operator</li> <li>○ Intermediaries               <ul style="list-style-type: none"> <li>○ Customs brokers, Freight forwarders, consolidators, Customs House Agents, shipping</li> </ul> </li> </ul>	10	18



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	<p style="text-align: center;">agents, shippers, airlines, air integrators, ports.</p> <ul style="list-style-type: none"> <li>○ Container Freight Stations and Inland Container Depot</li> <li>○ Global Ocean transportation <ul style="list-style-type: none"> <li>○ Types of service</li> <li>○ Size of vessels</li> <li>○ Type of vessels / ships</li> <li>○ Flag</li> <li>○ Cargo inspections</li> <li>○ Shipping Conference Carrier, conference shipping and non-conference shipping</li> <li>○ Ocean Freight rates and calculations</li> <li>○ Freight Adjustments <ul style="list-style-type: none"> <li>▪ Currency Adjustment Factor</li> <li>▪ Bunker Adjustment Factor</li> </ul> </li> <li>○ Important Sea Routes <ul style="list-style-type: none"> <li>▪ North Atlantic, Mediterranean, Indian Ocean, Panama Canal, Cape Route, Suez Canal, South Atlantic</li> </ul> </li> <li>○ Major sea ports of India, World, Port Codes</li> </ul> </li> <li>○ Global Air transportation <ul style="list-style-type: none"> <li>○ Cargo airlines</li> <li>○ Types of service</li> <li>○ Types of aircraft, Unit Load Devices</li> <li>○ Air freight tariff</li> <li>○ Air carriers</li> <li>○ TIACA – role, tariff structures</li> <li>○ International air cargo security</li> <li>○ Role of IATA</li> </ul> </li> </ul>		
III	<p>Global Logistics and Transport Management-II:</p> <ul style="list-style-type: none"> <li>○ Global land and multimodal transportation <ul style="list-style-type: none"> <li>○ Truck transportation</li> <li>○ Rail transportation</li> <li>○ Intermodal transportation</li> <li>○ Pipelines</li> </ul> </li> </ul> <p>Packaging and Warehousing:</p> <ul style="list-style-type: none"> <li>○ Packaging <ul style="list-style-type: none"> <li>○ Functions and objectives</li> <li>○ Material requirements for ocean and air cargo</li> <li>○ Markings</li> <li>○ Legal issues in packaging</li> </ul> </li> <li>○ Warehousing <ul style="list-style-type: none"> <li>○ Warehouse functions</li> <li>○ Warehouse ownership</li> <li>○ Warehouse activities</li> <li>○ Warehouse locations</li> </ul> </li> </ul> <p>Information and Communication Technology:</p> <ul style="list-style-type: none"> <li>○ IT and cost efficiency</li> <li>○ Digital transformation of Supply Chain</li> </ul>	10	17



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IV	Global Supply Chain Finance (in brief) Network Design of Global Supply Chains <ul style="list-style-type: none"> <li>○ Network flow models</li> </ul> Contemporary Issues: <ul style="list-style-type: none"> <li>○ Supply Chain Risks</li> <li>○ Supply Chain Analytics</li> <li>○ Supply Chain Sustainability</li> </ul>	10	17
V	Practical: <ul style="list-style-type: none"> <li>○ Use case studies of world class manufacturing companies.</li> <li>○ Students can simulate process improvements in their surroundings. Students can also carry out projects in organizations which have implemented Six Sigma.</li> <li>○ Students can also undertake Kaizen and 5S projects in small SMEs or service organizations.</li> </ul>	---	(30 marks CEC)

**4. Pedagogy:**

- ICT enabled Classroom teaching
- Case study
- Practical / live assignment
- Interactive class room discussions

**5. Evaluation:**

Students shall be evaluated on the following components:

<b>A</b>	<b>Internal Evaluation</b>	<b>(Internal Assessment- 50 Marks)</b>
	• Continuous Evaluation Component	30 marks
	• Class Presence & Participation	10 marks
	• Quiz	10 marks
<b>B</b>	<b>Mid-Semester examination</b>	<b>(Internal Assessment-30 Marks)</b>
<b>C</b>	<b>End –Semester Examination</b>	<b>(External Assessment-70 Marks)</b>

**6. Reference Books:**

No	Author	Name of the Book	Publisher	Year of Publication / Edition
1	Alan E. Branch	Global Supply Chain Management and International Logistics	Routledge	2009 / 1st
2	Pierre A. David	International Logistics	Cicero	2017 / 5th
3	S. Sudalaimuthu, S. Anthony Raj	Logistics Management for International Business: Text and Cases	PHI	2009
4	Ram Singh	International Trade Logistics	Oxford	2015 / 1s
5	Michael Hugos	Essentials of Supply Chain Management	Wiley	2018 / 4th
6	John Mangan, Chandra L Lalwani	Global Logistics and Supply Chain Management	Wiley	2016 / 3rd
7	Sunil Chopra	Supply Chain Management	Pearson	2019 / 7th



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**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. Operations and Supply Chain Management
2. International Journal of Physical Distribution and Logistics Management
3. Global Supply Chain Management
4. EXIM Newsletter
5. <http://eximin.net/>
6. Daily Shipping Times: [www.dst.news](http://www.dst.news)
7. <https://shippingandfreightresource.com/>
8. <https://incodocs.com/>