



GUJARAT TECHNOLOGICAL UNIVERSITY
Programme: Master of Business Administration, 4th Semester
Branch: Logistic & Supply Chain Management
Subject Name: Risk Management in Supply Chain and Logistics
Subject Code: 1549704

1. Learning Outcome:

Learning Outcome Component	Learning Outcome (Learner will be able to)
Business Environment and Domain Knowledge (BEDK)	<ul style="list-style-type: none"> • <i>Define and explain</i> basic concepts of Risk in Supply Chain Management. Recognize, assess, and mitigate various types of risk throughout the supply chain. • <i>Interpret</i> Risks associated with Supply Chain & Logistic Management.
Critical thinking, Business Analysis, Problem Solving and Innovative Solutions (CBPI)	<ul style="list-style-type: none"> • <i>Evaluate</i> the complexities of Supply Chain Risk & Logistics on Business. • <i>Analyze</i> the impact of Supply Chain Risk & Logistics on Business and plan accordingly.
Global Exposure and Cross-Cultural Understanding (GECCU)	<ul style="list-style-type: none"> • <i>Interpret</i> the influence of Software & Technologies to support Supply Chain & Logistics Management at Global Level.
Social Responsiveness and Ethics (SRE)	<ul style="list-style-type: none"> • <i>Evaluate</i> the Environmental Issues & Carbon Footprint, Legal & Ethical Obligations as well as Financial that influence selection of Supply Chain & Logistics.
Effective Communication (EC)	<ul style="list-style-type: none"> • <i>Evaluate</i> framework throughout your Supply Chain & Logistic Management and considering the impact of robust risk management framework for the organization.
Leadership and Teamwork (LT)	<ul style="list-style-type: none"> • <i>Recommend</i> Appropriate risk response strategies and levels of response.

LO - PO Mapping: Correlation Levels:

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

Sub. Code:	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
LO1: <i>Define and explain</i> basic concepts of Risk in Supply Chain Management. Recognize, assess, and mitigate various types of risk throughout the supply chain.	3	1	1	2	-	-	1	-	1
LO2: <i>Interpret</i> Risks associated with Supply Chain & Logistic Management.	2	2	2	-	-	-	-	2	2
LO3: <i>Evaluate</i> the complexities of Supply Chain Risk & Logistics on Business.	2	2	1	-	-	-	-	2	2
LO4: <i>Analyze</i> the impact of Supply Chain Risk & Logistics on Business and plan accordingly.	3	2	1	-	1	2	-	2	1



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LO5: <i>Interpret</i> the influence of Software & Technologies to support Supply Chain & Logistics Management at Global Level.	1	2	1	1	3	2	1	2	3
LO6: <i>Evaluate</i> the Environmental Issues & Carbon Footprint, Legal & Ethical Obligations as well as Financial that influence selection of Supply Chain & Logistics.	2	-	1	-	3	-	3	-	1
LO7: <i>Evaluate</i> framework throughout your Supply Chain & Logistic Management and considering the impact of robust risk management framework for the organization.	1	3	1	1	3	1	-	3	1
LO8: <i>Recommend</i> Appropriate risk response strategies and levels of response.	2	2	-	3	-	3	-	2	2

1. Course Duration: The course duration is of **40 sessions of 60 minutes each.**

2. Course Contents:

Module No:	Content	No. of Sessions	70 Marks (External Evaluation)
I	Introduction of Risks Management Risk Management: Concept and Process, An Action-Based Framework for Supply Chain Risk, Identification of Operational Hazards, Risk Assessment and Valuation, Tactical Risk Decisions and Crisis Management, Strategic Risk Mitigation, Four Operational Hedging Strategies. Effect of disruptive Supply Chain on Corporate Performance	10	18
II	Operational Strategy for Managing Supply Chain Risks Introduction, Stockpile Inventory, Diversify Supply, Backup Supply, Manage Demand, Ambiguity in Risks. Decentralized Risks Management Strategy. Shared risks 177; Achieving an integrated approach 180; Identifying risks 184; Analyzing and responding to risks 185; Problems with integrating SCRM 187; Levels of SCRM integration 190; In summary 192	10	18



III	<p>Managing Supply Chain Disruption Economic Risks to Supply Chain-Demand Shock, Currency Fluctuation, Supply Shock, Industrial Unrest, Impacts of Natural Disasters, Pandemics and Climate Change, Societal Risks to Supply chain, Risks and Security in Air Cargo Supply chain, Time-Based Risk Management Response Time and Impacts, Risk and Reward Considerations.</p> <p>Approaches to Risk Management Identifying Risks and its Types, Tools for Analyzing Past Events, Tools to Collect Opinions, Tools to Analyze Operations, Problems with Risks Identification, Conceptual Explanations with Examples, Development of Risk Management Techniques, Supply Chain Risk Management (SCRM) and aims of SCRM. Steps in Risk Management, Principles of SCRM. Supply Chain Management in Disaster Response.</p>	10	17
IV	<p>Creating Resilient Supply Chains Concept of Resilient Supply Chain, Principles of Designing a Resilient Supply Chain, Physical Features of a Resilient Supply Chain, Relationships within a Resilient Supply Chain, Risk Compensation and Business Continuity. Latest updates in Resilient Supply Chain.</p>	10	17
V	<p>Practical:</p> <ul style="list-style-type: none"> ○ Students will work in teams to develop a comprehensive business plan for a hypothetical supply chain and logistics venture. They will incorporate concepts learned in Modules 1 to 4 and present their plans to the class. Feedback will be provided by both peers and the instructor. 	---	(30 marks CEC)

3. Pedagogy:

- ICT enabled Classroom teaching.
- Case study
- Practical / live assignment
- Interactive classroom discussions

4. Evaluation:

Students shall be evaluated on the following components:

A	Internal Evaluation	(Internal Assessment- 50 Marks)
	<ul style="list-style-type: none"> • Continuous Evaluation Component 	30 marks
	<ul style="list-style-type: none"> • Class Presence & Participation 	10 marks
	<ul style="list-style-type: none"> • Quiz 	10 marks
B	Mid-Semester examination	(Internal Assessment-30 Marks)
C	End –Semester Examination	(External Assessment-70 Marks)



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5. Reference Books:

No.	Author	Name of the Book	Publisher	Year of Publication / Edition
1	Donald Water	Supply Chain Risks Management,	Kogan Pages	Latest Edition
2	Omra Khan & George Zsidisn	Handbook for Supply Chain and Risks Management	Meri Pustak	Latest Edition
3	Yacob Khojasteh,	Supply Chain Risk Management: Advanced Tools, Models, and Developments	Springer	Latest Edition
4	Bret Wagner, Sime Curkovic, and Thomas Scannell	Managing Supply Chain Risk: Integrating with Risk Management		Latest Edition
5	Lingxiu Dong, Onur Boyabatli, and Panos Kouvelis	Handbook of Integrated Risk Management in Global Supply Chains	Weily	Latest Edition

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

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

1. Harvard Business Review - Provides insights into entrepreneurship, innovation, and strategic decision-making in supply chain and logistics.
2. Entrepreneur Magazine - Offers articles and case studies on successful entrepreneurs, entrepreneurial strategies, and business planning in various industries.
3. Supply Chain Management Review - Focuses on emerging trends, technologies, and opportunities in supply chain and logistics, relevant for entrepreneurial ventures.
4. Logistics Management - Covers topics related to operational efficiency, strategic partnerships, and scaling up in the logistics industry.
5. Forbes - Offers a wide range of articles on entrepreneurship, market analysis, financial planning, and risk assessment applicable to supply chain and logistics startups.
6. MIT Sloan Management Review - Provides research articles and insights into entrepreneurial strategies, innovation, and market positioning relevant to supply chain and logistics management.
7. Entrepreneurship & Innovation Exchange (EIX) - Offers academic research and practical resources on entrepreneurship, innovation, and business planning, applicable to the supply chain and logistics context.
8. Journal of Business Venturing - Publishes scholarly articles on entrepreneurial ventures, strategic decision-making, and growth strategies, with relevance to supply chain and logistics entrepreneurship.