Course code: BS 155       No. of credits: 2       L-T-P distribution: 24-4-4       Learning hours: 28         Pre-requisite course code and title (if any):       BS 138: Logistics and Supply Chain Management       Base 2000 (S): Mr. Sanjeev Shivesh       Department: Department of Business Sustainability         Course coordinator (s): Mr Shri Prakash @ terisas.ac.in         Course description         Tourse develops upon the basic foundations of logistics and supply chain concepts to provide deeper understanding concepts, frameworks and tools for advanced analysis of logistics and supply chain design and deployment in complex organizations. The key areas where the course delves into deeper details are: <ul> <li>Inventory Planning</li> <li>Demand Porecasting</li> <li>Facility Planning and Network Design</li> <li>Logistics and Supply Chain Strategy</li> <li>The course provides for a Capstone Consultancy Project, where students shall work with real organizations to work of their business problems using the concepts learnt in this course.</li> <li>Understand and appreciate advanced concepts of logistics and supply chain</li> <li>Gain ability to design logistics networks and fulfilment centres</li> <li>Display competence of solving real-life problems of logistics and supply Chain</li> <li>Querview of Logistics and Supply Chain, Supply Ch</li></ul>
Pre-requisite course code and title (if any):         BS 138: Logistics and Supply Chain Management         Department: Department of Business Sustainability         Course coordinator (s): Mr Shri Prakash @terisas.ac.in         Course offered in: Semester 3         Course develops upon the basic foundations of logistics and supply chain concepts to provide deeper understanding concepts, frameworks and tools for advanced analysis of logistics and supply chain design and deployment in complex organizations. The key areas where the course delves into deeper details are: <ul> <li>Inventory Planning</li> <li>Demand Forecasting</li> <li>Facility Planning and Network Design</li> <li>Logistics and Supply Chain Strategy</li> <li>Orgene objectives</li> </ul> <li>Understand and appreciate advanced concepts of logistics and supply chain management</li> <li>Learn the art of inventory management and demand forecasting</li> <li>Gain ability to design logistics networks and fulfilment centres</li> <li>Display competence of solving real-life problems of logistics and supply chain</li> <li>Course content</li> <li>Module 1: Advanced Concepts in Logistics and Supply Chain</li> <li>Module 1: Advanced Concepts such as Safety Stock, Reorder level, Economic Order, Supply Chain on adparet of multi-echelon supply Chain on BOAP - Concepts Effect, Burbidge Effect, Flywheel Effect, Damand appreciates and Supply Chain and Shareholder Value, Economere Supply Chain and Shareholder Value, Economic Order Quantity, Economic Batch Quantity, Economic Batch Quantity, Engrate of multi-echelon supply Chain on EQ – Forester Effect, Burbidge Effect, Flywheel Effect, Demand a</li>
BS 138: Logistics and Supply Chain Management         Department: Department of Business Sustainability         Course coordinator (s): Mr Shri Prakash       Course instructor (s): Mr. Sanjeev Shivesh         Course type       Core       Course offered in: Semester 3         Course description         This course develops upon the basic foundations of logistics and supply chain concepts to provide deeper understanding concepts, frameworks and tools for advanced analysis of logistics and supply chain design and deployment in complex organizations. The key areas where the course delves into deeper details are: <ul> <li>Inventory Planning</li> <li>Demand Forecasting</li> <li>Facility Planning and Network Design</li> <li>Logistics and Supply Chain Strategy</li> <li>The course provides for a Capstone Consultancy Project, where students shall work with real organizations to work of their business problems using the concepts learnt in this course.</li> </ul> <li>Course objectives         <ul> <li>Understand and appreciate advanced concepts of logistics and supply chain</li> <li>Course content</li> <li>Course content</li> <li>Module 1: Advanced Concepts in Logistics and Supply Chain</li> <li>Course content</li> </ul> </li> <li>Module 1: Advanced Concepts such as Safety Stock, Reorder level, Economic Order Quantity, Economic Batch Quantity, Impact of multi-echelon supply Chain on EOQ – Forrester Effect, Burbidge Effect, Flywheel Effect, Denand Planning, Structured forecasting ethols, Structured forecasting, Causal Analysis, Challenge of Organization set (DDDW)</li>
Department: Department of Business Sustainability           Course coordinator (s): Mr Shri Prakash         Course instructor (s): Mr. Sanjcev Shivesh           Contact details: shri.prakash@terisas.ac.in         Course offered in: Semester 3           Course type         Core         Course offered in: Semester 3           Course develops upon the basic foundations of logistics and supply chain concepts to provide deeper understanding concepts, frameworks and tools for advanced analysis of logistics and supply chain design and deployment in complex organizations. The key areas where the course delves into deeper details are: <ul> <li>Inventory Planning</li> <li>Demand Forecasting</li> <li>Te course provides for a Capstone Consultancy Project, where students shall work with real organizations to work of their business problems using the concepts of logistics and supply chain management</li> <li>Learn the art of inventory management and demand forecasting</li> <li>Gain ability to design logistics networks and fulfilment centres</li> <li>Display competence of solving real-life problems of logistics and supply chain</li> <li>Overview of Logistics and Supply Chain Concepts, SCOR Model and Integrated Supply Chain, Supply Chain and Shareholder Value, Economic Otec Quantity, Economic Batch Quantity, Impact of multi-echelon supply chain on EOQ – Forrester Effect, Burbidge Effect, Flywheel Effect, Demand amplification and Bullwhip Effect, Service</li> <li>Level and Inventory Planning and Control Concepts such as Safety Stock, Reorder level, Economic Oted Quantity, Economic Batch Quantity, Impact of multi-echelon supply chain on EOQ – Forrester Effect, Burbidge Effect, Flywheel Effect, Demand amplification and Bullwhip Effect, Service</li> <li>Lev</li></ul>
Course coordinator (s): Mr Shri Prakash         Course instructor (s): Mr. Sanjeev Shivesh           Contact details: shri.prakash@terisas.ac.in         Course offered in: Semester 3           Course description         Course description           This course develops upon the basic foundations of logistics and supply chain concepts to provide deeper understanding concepts, frameworks and tools for advanced analysis of logistics and supply chain design and deployment in complex organizations. The key areas where the course delves into deeper details are:
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Course type       Core       Course offered in: Semester 3         Course description       This course develops upon the basic foundations of logistics and supply chain concepts to provide deeper understanding concepts, frameworks and tools for advanced analysis of logistics and supply chain design and deployment in complex organizations. The key areas where the course delves into deeper details are: <ul> <li>Inventory Planning</li> <li>Demand Forecasting</li> <li>Facility Planning and Network Design</li> <li>Logistics and Supply Chain Strategy</li> <li>The course provides for a Capstone Consultancy Project, where students shall work with real organizations to work of their business problems using the concepts learnt in this course.</li> <li>Course objectives</li> <li>Understand and appreciate advanced concepts of logistics and supply chain management</li> <li>Learn the art of inventory management and demand forecasting</li> <li>Gain ability to design logistics networks and fulfilment centres</li> <li>Display competence of solving real-life problems of logistics and supply Chain</li> <li>Module 1: Advanced Concepts in Logistics and Supply Chain</li> <li>Querview of Logistics and Supply Chain Concepts, SCOR Model and Integrated Supply Chain, Supply Chain and Shareholder Value, Ecommerce Supply Chain, Supply Chain on EQQ – Forrester Effect, Plavhed Effect, Plavheng and Control Concepts such as Safety Stock, Reorder level, Economic Order Quantity, Economic Batch Quantity, Impact of multi-echelon supply chain on EQQ – Forrester Effect, Service Level and Inventory Optimization</li> <li>Module 3: Demand Planning and Forecasting Hurbing Effect, Service Level and Inventory Optimization</li> <li>Module 3: Demand Planning and Forecasting methods, Top Down and Bottom Up, Forecasting Bias, Time Series Analysis, Smoothening, Causal Analysis, Challenge</li></ul>
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-       Logistics and Supply Chain Strategy         The course provides for a Capstone Consultancy Project, where students shall work with real organizations to work of their business problems using the concepts learnt in this course.         Course objectives         •       Understand and appreciate advanced concepts of logistics and supply chain management         •       Learn the art of inventory management and demand forecasting         •       Gain ability to design logistics networks and fulfilment centres         •       Display competence of solving real-life problems of logistics and supply chain         Course content       Image: Course content         Module       Topic       L       T       P         1.       Module 1: Advanced Concepts in Logistics and Supply Chain Overview of Logistics and Supply Chain Concepts, SCOR Model and Integrated Supply Chain, Supply Chain and Shareholder Value, Econmerce Supply Chains,       6       0       0         2.       Module 2: Inventory Planning Inventory Planning and Control Concepts such as Safety Stock, Reorder level, Economic Order Quantity, Economic Batch Quantity, Impact of multi-echelon supply chain on EOQ – Forrester Effect, Burbidge Effect, Flywheel Effect, Demand amplification and Bullwhip Effect, Service Level and Inventory Optimization       6       1       1         3.       Module 3: Demand Planning and Forecasting Introduction to Demand Planning, Structured forecasting methods, Top Down and Bottom Up, Forecasting Bias, Time Series Analysis, Smoothening, C
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2.       Module 2: Inventory Planning       6       0       0         Inventory Planning and Control Concepts such as Safety Stock, Reorder       6       0       0         level, Economic Order Quantity, Economic Batch Quantity, Impact of       1       1       1         multi-echelon supply chain on EOQ – Forrester Effect, Burbidge Effect,       1       1       1         Flywheel Effect, Demand amplification and Bullwhip Effect, Service       1       1       1         Level and Inventory Optimization       6       1       1       1         3.       Module 3: Demand Planning and Forecasting       6       1       1       1         Introduction to Demand Planning, Structured forecasting methods, Top Down and Bottom Up, Forecasting Bias, Time Series Analysis, Smoothening, Causal Analysis, Challenge of Organization setup in forecasting,       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1
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multi-echelon supply chain on EOQ – Forrester Effect, Burbidge Effect,       image: Second Seco
Flywheel Effect, Demand amplification and Bullwhip Effect, Service       6         Level and Inventory Optimization       6         Introduction to Demand Planning, Structured forecasting methods, Top Down and Bottom Up, Forecasting Bias, Time Series Analysis, Smoothening, Causal Analysis, Challenge of Organization setup in forecasting, Causal Analysis, Challenge of Organization,
Berlehenting Planning and Forecasting       6         3.       Module 3: Demand Planning and Forecasting       6         Introduction to Demand Planning, Structured forecasting methods, Top Down       6         and Bottom Up, Forecasting Bias, Time Series Analysis, Smoothening,       6         Causal Analysis, Challenge of Organization setup in forecasting,       6
3.       Module 3: Demand Planning and Forecasting       6         Introduction to Demand Planning, Structured forecasting methods, Top Down and Bottom Up, Forecasting Bias, Time Series Analysis, Smoothening, Causal Analysis, Challenge of Organization setup in forecasting,       6         Causal Analysis, Challenge of Organization setup in forecasting,       6
Introduction to Demand Planning, Structured forecasting methods, Top Down and Bottom Up, Forecasting Bias, Time Series Analysis, Smoothening, Causal Analysis, Challenge of Organization setup in forecasting,
and Bottom Up, Forecasting Bias, Time Series Analysis, Smoothening, Causal Analysis, Challenge of Organization setup in forecasting,
Causal Analysis, Challenge of Organization setup in forecasting,
Construct Planning, Forecasting and Replenishment (CPFR)
Case Study – Forecasting a New Project in a dynamic environment
4. Wround 4: Facility Planning for Logistics 5 4
Depois, watchouse, Fulliment and Distribution Centres In Logistics,
operations Locating the Eulfilment and Distribution Control Managing
transhipment Material handling aggipment at Logistics Parks, Dianning the
Logistic Park Operations, Visit to Multimodal Logistics Park
5 Module 5: Supply Chain Network Modelling 2
J. Designing the supply chain retwork plan Time Descurres Plan Control
Charts for Logistics Operations, Volume Variety – Variability Challenge
Charts for Logistics Operations, volume- variety – variability Chartelinge           6         Module 6: Developing the Logistics and Supply Chain Strategy         2
U. Strategic Frameworks for Logistics and Supply Chain SCOP Model and its

		linkage to Business Strategy, Reverse Logistics, Situation Assessment and					
		Gap Analysis					
7.	Consultancy Project on Logistics and Supply Chain (includes Approaches			3	4		
	to solving supply chain challenges, Interviewing Top Management for						
	understanding strategic issues and Project Presentations						
		Total		24	4	4	
Evaluation criteria							
•	Mid-Term Examination 30%						
•	Simulation Report 20%						
<ul> <li>End-term Examination 50%</li> </ul>							
Learning Outcomes:							
• The student fully understands the concepts of different aspects of logistics management namely							
inventory planning, planning and working of demand and supply management, planning of various							
facilitates for logistics etc.							
• The student is confident to working independently in a working position in a Logistics and Supply							
Chain organisation after a short duration on job earning							
Pedagogical approach							
A combination of class-room interactions and assignments with special emphasis on case studies and real life							
examples.							
Materials							
1 Learning Case Pack by the Instructor							
Additional information (if any)							

## Student responsibilities,

Attendance, feedback, discipline, guest faculty etc.

## **Course reviewers:**

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- 1. Dr. Ashwani Kumar, General Manager, Centre for Railway Information System (CRIS), New Delhi
- 2. Mr. S Sundar, Distinguished Fellow, The Energy and Resources Institute (TERI), New Delhi