

AC –

Item No. –

As Per NEP 2020

**Tolani College of
Commerce
(Autonomous)**



**Title of the Course: Forecasting and Inventory Management
(Semester II)**

Programme: Bachelor of Commerce (Logistics)

Syllabus for 4 Credit Course from the Academic Year 2025-2026

Name of the Course: Forecasting and Inventory Management

Sr. No.	Heading	Particulars
1	<p>Description of the course :</p> <p>Including but not limited to :</p>	<p>A comprehensive study of essential principles and practices in logistics operations. This course is designed to equip students with a thorough understanding of both forecasting techniques and inventory management strategies within the logistics context.</p> <p>Students will be well-equipped to apply forecasting and inventory management principles effectively in real-world logistics scenarios. They will develop the skills needed to optimize inventory levels, improve supply chain efficiency, and excel as professionals in forecasting and inventory management roles.</p>
2	Vertical :	Open Elective
3	Type :	Theory
4	Credit:	4 credits
5	Hours Allotted :	60 Hours
6	Marks Allotted:	100 Marks Continuous Evaluation 40 marks and Semester End Examination 60 marks
7	<p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To develop competencies and knowledge of students to become Forecasting and inventory management professionals 2. To orient students in the field of Forecasting and inventory management and help them understand its intricacies. 	
8	<p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. Students will be able to apply the Basic knowledge of forecasting and inventory management in the real life situation 2. It will enable them to enhance their ability and professional skills in inventory management 	
9	Module 1:	(15 Hours)
	<ul style="list-style-type: none"> ● Forecasting: Meaning, Need, and Types of Forecasts ● Demand Forecasting – Types of Demand Forecasting ● Importance of Demand Planning vs Forecasting ● Sources of Demand – Supply Chain Dynamics 	

	<ul style="list-style-type: none"> ● Sales and Operations Planning – Goals and Objectives of S&OP ● Collaborative Planning – Types and Importance ● Collaborative Planning, Forecasting, and Replenishment
	<p>Module 2: (15 Hours)</p>
	<ul style="list-style-type: none"> ● Cyclic Decomposition Techniques – Short-term Forecasting Techniques ● Technology Forecasting and Methodologies ● Role of Technology Information Forecasting and Assessment Council (TIFAC) ● Inventory: Purpose of Inventory – Types of Goods ● General Management of Inventory – Multi-Echelon Inventory Systems ● Use of Computers in Inventory Management ● Evaluation of Performance of Materials Function – Latest Trends in Inventory Management
	<p>Module 3: (15 Hours)</p>
	<ul style="list-style-type: none"> ● Codification – Classification – Methodology ● Requirement of Codes – Coding Structure and Design ● Advantages – International Codification ● Right Quantity – Economic Ordering Quantity ● Costs Associated with Inventories ● Models in Logistics ● Influence of Production Policy on Inventory Levels
	<p>Module 4: (15 Hours)</p>
	<ul style="list-style-type: none"> ● Inventories and Customer Service Level ● Steps to Improve Inventory Management ● Optimum Inventory Management Strategies ● Inventory Management Uncertainty (Fixed Order Quantity Model) ● Calculation of Safety Stocks ● Risk Factors and Challenges in Inventory Optimization ● Future Trends in Demand and Inventory Management

10	<p>Reference Books:</p> <ul style="list-style-type: none"> ● Course Material Prepared by LSC ● Chopra, Sunil, and Peter Meindl. Supply Chain Management. Pearson Education Asia, 3rd edition, 2007. ● Jain, Chaman L. Fundamentals of Demand Planning & Forecasting. Graceway Publishing Company, 3rd edition. ● Kapoor, V.K. Operations Research – Concepts, Problems & Solutions. Sultan Chand & Sons, 2017. ● Khurana, Vijay Kumar. Management of Technology and Innovation. Ane books India, Chennai, 2007. ● Simchi-Levi, David. Designing and Managing Supply Chain. Tata McGraw Hill, 3rd Edition, 2007.
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11	Internal Continuous Assessment: 40%	Semester End Examination: 60%	
12	Continuous Evaluation through: (40 marks)	Case Study/ Class Presentation/ Research Assignments/ Periodical Test/ Practical Hands-on Assignment/ Simulation	A Learner must be present for each of the sub-component
13	Format of SEE Question Paper: (60 marks)		
	Question No.	Nature of Question	Maximum Marks
	Q-1	Answer the following: (attempt any 2 of 3) a) b) c)	15 Marks
	Q-2	Answer the following: (attempt any 2 of 3) a) b) c)	15 Marks
	Q-3	Answer the following: (attempt any 2 of 3) a) b) c)	15 Marks
	Q-4	Answer the following: (attempt any 2 of 3) a) b) c)	15 Marks

Signatures of Team Members

Sr.No.	Name	Signature
1.	Ms. Amrita Nambiar	
2.	Mr. Rohit Bisht	