As Per NEP 2020

Tolani College of Commerce (Autonomous)

Knowledge is Supreme

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

Programme: Bachelor of Commerce (Logistics)

Syllabus for 2 Credit Course from the Academic Year 2024-2025

Name of the Course: Forecasting and Inventory Management

Sr. No.	Heading	Particulars
1	**Description of the course :** **Including but not limited to :**	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. 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.
2	**Vertical :**	Major
3	**Type :**	Theory
4	**Credit**:	2 credits
5	**Hours Allotted :**	30 Hours
6	**Marks Allotted**:	50 Marks Continuous Evaluation 20 marks and Semester End Examination 30 marks
7	**Course Objectives:** 1. To understand MIS from the perspective of Logistics 2. To develop competencies and knowledge of students to become MIS for logistics professionals	
8	**Course Outcomes**: 1. Ability to apply basic knowledge of MIS for Logistics in a real-life situation 2. Enable students to enhance their ability and professional skills in Logistics	

9	Module 1: Forecasting and Sales Operations
	▶ Forecasting Essentials: Meaning, Need, and Types of Forecasts ▶ Demand Forecasting: Techniques and Importance ▶ Sales and Operations Planning (S&OP): Goals, Objectives, and Collaborative Planning ▶ Collaborative Planning, Forecasting, and Replenishment: Strategies and Techniques ▶ Short-term Forecasting Techniques and Technology Forecasting ▶ Supply Chain Dynamics: Understanding the impact on forecasting and operations
	Module 2: Inventory Management and Production Policy
	▶ Inventory Essentials: Purpose, Types, and General Management ▶ Multi-Echelon Inventory Systems and Use of Computers in Inventory Management ▶ Codification and Classification: Methodologies and Requirements ▶ Influence of Production Policy on Inventory Levels and Customer Service ▶ Optimization Techniques: Economic Ordering Quantity, Safety Stocks, and Models in Logistics ▶ Evaluation of Performance of Materials Function: Assessing efficiency and effectiveness

10	**Reference Books:** ● 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. ● Mulcahy, David E. Warehouse Distribution and Operations Handbook. McGraw Hill, 6th Edition, 1993. ● Simchi-Levi, David. Designing and Managing Supply Chain. Tata McGraw Hill, 3rd Edition, 2007.
11	**Internal Continuous Assessment: 40%** **Semester End Examination: 60%**
12	**Continuous Evaluation through: (20 marks)**

12	**Continuous Evaluation through:** **(20 marks)**	1) Case Study, Class Presentation and Research Assignments (10 marks) 2) MCQ Based Test (10 marks)	A Learner must be present for each of the sub-component

13	**Format of SEE Question Paper: (30 marks)**		
	Question No.	**Nature of Question**	**Maximum Marks**
	Q-1	Answer the following: (attempt any 2 of 3) a) b) c)	10 Marks
	Q-2	Answer the following: (attempt any 2 of 3) a) b) c)	10 Marks
	Q-3	Answer the following: (attempt any 2 of 4) a) b) c) d)	10 Marks

Signatures of Team Members

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