

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING[AIML]**Semester: VI****Year: 2025-2026**

Course Title	Supply Chain Management System	Course Code	ADDON
Total Teaching Hours	30	Teaching + Tutorial Hours/Week	2
Internal Assessment Marks	05		
Course Plan Prepared by	Prof. Ravindra Patil	Date	02-02-2026

Course Content (Syllabus)

<p style="text-align: center;">MODULE-1</p> <p style="text-align: center;">Fundamentals of Supply Chain Management (10 Hours)</p> <p>Introduction to Supply Chain Management (SCM), Importance and objectives of SCM, Evolution of Supply Chain Management, Supply chain vs value chain, Components of a supply chain, Suppliers Manufacturers Distributors Retailers Customers, Supply chain processes Procurement Production Distribution Logistics, Push vs Pull supply chain strategies, Supply chain cycle view SCM challenges in the digital era.</p>	10 Hrs
<p style="text-align: center;">MODULE-2</p> <p style="text-align: center;">Inventory, Forecasting & Supply Chain Models</p> <p>Basics of inventory management, Types of inventory, Inventory costs, Economic Order Quantity (EOQ) – concept, Just-In-Time (JIT) inventory, Safety stock, Demand forecasting fundamentals, Forecasting techniques (overview), Bullwhip effect, Supply chain network design, Basic supply chain models, Introduction to SCOR Model, Supply chain performance drivers.</p>	10 Hrs
<p style="text-align: center;">MODULE-3</p> <p style="text-align: center;">SCM Systems, IT & Emerging Technologies</p> <p>Exploratory Data Analysis - Summary Statistics, Getting a Sense of Data Distribution - Box Plots, Regression – Introduction, Parametric Regression Models - LR, Non Parametric Regression Models - LWR, Classification - Parametric Classification Models - Naive Bayes, Non parametric Classification Models - Nearest Neighbors, Text Mining - Common Text Preprocessing Tasks, Term Document Matrix, Text Mining Applications.</p>	10 Hrs

Staff Handling: Prof. Ravindra Patil

Industry Experts/ Alumni: Mr. Panduranga (2008 Passout).