

### AE-326: Supply Chain Management

L	T	P	Credit	Area		CWS	PRS	MTE	ETE	PRE
3	0/1	2/0	4	DEC		15/25	25/-	20/25	40/50	-

**Objectives:** The main objective of supply chain management are to improve the overall organization performance and customer satisfaction by improving products or service delivery to customer. Supply chain management consists of all parties such as supplier, manufacturer, distributor retailers, customers directly or indirectly involved in fulfilment of customers' demands.

AE-326: Supply Chain Management										Contact Hours
Unit-1	Introduction: Perspective of Supply Chain Management, Managing uncertainty, Key issue in supply chain management									8
Unit-2	Inventory Management and Risk Pooling: Inventory management, Classification of inventory, centralized versus Decentralized Warehousing and Risk pooling, Value of Information, Quantification of Bullwhip effect, Causes and remedies of Bullwhip effect									6
Unit-3	Resource planning: Aggregate Production Planning – Chase and leveling strategies, MRPI, MRP-II, Agile manufacturing Systems									6
Unit-4	Procurement and Outsourcing strategies: Introduction, outsourcing benefits and risks, Make/Buy decision, e-procurement, Vendor selection and quota allocation									8
Unit-5	Strategic Alliances: Introduction, Third party logistics, Demand driven strategies, Distribution strategies direct shipment, cross docking, transshipment, Supplier relationships management, Customer relationship management									8
Unit-6	International Issues in Supply Chain Management Concepts in Globalization, Globalization forces, Risks and Advantages of International supply chains, Issues in International supply chain management, Regional differences in logistics									6
	<b>Total</b>									<b>42</b>

#### Reference Books:

1	Designing and Managing the Supply Chain: concepts, strategic and case studies by David Simchi-Levi, Philip kaminsky, Edith Simchi-Levi, Ravi Shankar, Tata McGrawHill, ISBN: 978-0070666986
2	Supply Chain Management by Chopra and Mendle, PHI, ISBN:-13:978-0132743952
3	Supply Chain Management: Text and Cases by JannatSah, Pearson Education, ISBN-13:978-8131715178

**Course Outcomes**

CO1	To study Supply Chain Management and its Key issues.
CO2	To study Inventory Management and Risk Pooling
CO3	To study MRPI, MRP-II, Agile manufacturing Systems
CO4	To study Procurement and Outsourcing strategies
CO5	To study Strategic Alliances, Distribution strategies direct shipment, cross docking, transshipment, Supplier relationships management
CO6	To study International Issues in Supply Chain Management

**CO-PO/PSOMatrix**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	0	0	0	0	0	0	2	2	1	1
CO2	3	3	2	3	1	0	0	0	0	0	0	1	2	1	1
CO3	3	3	3	3	1	0	0	0	0	0	0	2	3	3	2
CO4	3	3	3	3	1	0	0	0	0	0	0	1	3	3	2
CO5	2	2	2	2	2	0	0	0	0	0	0	1	2	2	2