

Course Plan
 PG

Supply Chain Management

Course Code	FT-108C	Session: Jul-Dec 2020	Semester: III
Tutor	Dr. Shilpi Mehta	Revision date :	Branch: MBA
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a. Scheme of the Semester Containing the Course

S. No	Subject Code	Subject Name	Maximum Alloted Marks					Hours/Week		Total Credits	
			Theory			Practical		Total Marks	L		P
			End Sem	Mid Sem Exam	Quiz/ Assignment	End Sem	Term Work Lab Work & Sessional				
3	FT-301C	Supply Chain Management	80	20	.....	.....	.....	100	3	....	3

b. Course Overview

This course would help students develop an understanding about the different aspect of managerial economics, key issues of supply chain and the drivers of supply chain performance. The course would acquaint the students with various concepts, models and decision making tools pertaining to supply chain network design, forecasting, inventory, transportation etc. and also enable them to apply the tools in real-life situation.

c. Course Learning Objectives (CLOs)s

The Learning Objectives of Product and Brand Management are such that the student will able to:

1. CLO1: To understand the basics of Logistics and Supply Chain Management.
2. CLO2: To explain the students the concept of logistics, evolution of Supply Chain and its dynamics.
3. CLO3: To know about key issues of Supply Chain and how to resolve it.
4. CLO4: To discuss the role of IT in Supply Chain Management.

d. Course Outcomes(COs)

1. To understand the distribution of goods and services by Logistics Management.
2. To demonstrate the complexity of inter-firm and intra-firm coordination.
3. To understand decisions involving the investments in productive resources, configuration of processes, product designs, and development of partnerships with suppliers and channels of distribution.
4. To use analytical tools and conceptual frameworks to make decisions in supply chain contexts as well as better understanding of the major strategic issues and trade-offs that arise in Supply Chain Management.

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Course Outcome (CO)	CO Statement
CO.301C.1	To understand the distribution of goods and services by Logistics Management.
CO.301C.2	To demonstrate the complexity of inter-firm and intra-firm coordination.
CO.301C.3	To understand decisions involving the investments in productive resources, configuration of processes, product designs, and development of partnerships with suppliers and channels of distribution.
CO.301C.4	To use analytical tools and conceptual frameworks to make decisions in supply chain contexts as well as better understanding of the major strategic issues and trade-offs that arise in Supply Chain Management.

e. Mapping Course Outcomes (COs) leading to the achievement of Program Outcomes (POs) and Program Specific Outcomes (PSOs)

(A) Program Outcomes (POs)

Management Graduates will be able to:

1. Apply knowledge of management theories and practices to solve business problems.
2. Foster Analytical and critical thinking abilities for data-based decision making.
3. Ability to develop Value based Leadership ability.
4. Ability to understand, analyze and communicate global, economic, legal, and ethical aspects of business.
5. Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment.

	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	2				
CO 2					
CO 3					2
CO 4			3		

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B) Program Specific Outcomes (PSOs)

1. Developing with the objective of transforming young students into highly adept professional managers.
2. Empowers students to demonstrate the ability to innovate, the ability to execute the critical and crucial challenges in this competitive world.
3. Providing a strong analytical foundation in key functional areas and the other, enabling a high degree of academic flexibility, thereby allowing the students to customize their MBA experience.
4. Help students to explore practical applications and practices of the management concept..

Not applicable now

Enter correlation level 1, 2, 3 as defined below-

1: Slight (Low); 2: Moderate (Medium); 3: Substantial (High) and if there is no correlation, put "----".

C) Measuring Course Outcomes attained through University Examinations

Course Code	% of students securing C grade (Grade Point 5) or more grade in Theory	Attainment Level for Theory Exams (A1)	% of students securing B grade (Grade Point 7) more grade in Practical	Attainment Level for Practical Exams (A2)	Weighted Attainment level for Theory & Practical (A1+A2)/2
CS502					

f. Topic delivery details of "Content beyond the Syllabus" for the attainment of POs and PSOs.

Sr. No.	Content Beyond syllabus to be taught	Satisfying PO	Satisfying PSO
1.			

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Slot / Contact Type	Ingredients (per student)	Distribution of periods @ 60min		Distribution of Marks Max. Marks As per University scheme		
		Number of hours per week	Per Semester (15 weeks)	End Sem.	Internal	
					MST/LWS	Q/A
Theory Slot	Lecture (L)	3	45	80	20	...
	Tutorial (T)	--	--			
Practical Slot	Practical Work (P)	...	....			....

Internal Assessments are based on scheme provided by the university.

(g.1) No. of Theory Lectures Necessary for the course: 45

(g.2) No. of Theory Lectures Unit wise:

UNIT	I	II	III	IV	V	VI	VII	TOTAL
Assigned No. of Lectures per Unit →	7	6	6	8	7	8	5	45

h. Prerequisite(s)

The students should have a basic idea about Logistics and Supply Chain , its concepts, Strategic issues and Demand Forecasting.

i. Post Requisites

Students should be able to understand various issues of Supply Chain Management as an integral part of Management.

j. University Syllabus

Theory

Unit I
Concept of Logistics: Introduction, objectives of logistics, types of logistics, concept of logistics management, evolution of logistics, difference between logistics and supply chain management, third party and fourth party logistics, logistics and competitive advantage, logistics mix.
Unit II
Concepts and importance of a Supply Chain (SC). Evolution of Supply Chain Management (SCM), Key issues of Supply Chain Management, Competitive and SC strategies, Achieving strategic fit,
Unit III
Dynamics of supply chain: Supply Chain Interventions, Push-based, Pull-based and Push-Pull based supply chain. Network design and Operations in the Supply Chain.
Unit IV
Inventory Management and Demand Forecasting in Supply Chain: Basic and Advanced inventory models, Multi-echelon inventory models, the value of information, Demand Forecasting methods, Bullwhip effect, its Causes and

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remedial measures.
Unit V
Transportation in SC environment: Design options for a transportation network, concept of outsourcing and selection of supply chain service provider.
Unit VI
Retailer- Supplier partnerships (RSP), Supplier evaluation and selection. Use of best practices.
Unit VII
Information Technology (IT) in Supply Chain Management, SC performance model: SCOR model, Application of Information Technology (IT) in Logistics and Supply Chain Management

Tutorials

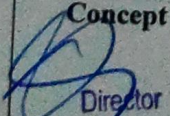
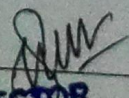
- Case studies
- Quiz
- Assignments

Practicals-

k. List of Lab experiments with COs:

S. No.	Problem Statement	Mapping with CO					
		CO1	CO2	CO3	CO4	CO5	CO6

1. Lecture Plan

Lr.No	Unit No.	Topic	Sub Topic	Reference
1	Unit 1	Concept of Logistics  Director Shivajirao Kadam Institute of Technology & Management - Technical Campus, INDORE	Concept of Logistics: Introduction 	B.N.2
2			Objectives of logistics	B.N.2
3			Concept of logistics management, evolution of logistics	B.N.2

4			Difference between logistics and supply chain management	B.N.2
5			Third party and Fourth party logistics	B.N.2
6			Logistics and competitive advantage, logistics mix.	B.N.2
7			Case Study	

LO: To understand factors that influence materials flow, Plan and control manufacturing systems, Improve communications and understanding of all functions in a manufacturing process

8	Unit 2	Concepts and importance of a Supply Chain (SC)	Concepts and importance of a Supply Chain (SC).	B.N.2
9			Evolution of Supply Chain Management (SCM)	B.N.2
10			Key issues of Supply Chain Management	B.N.2
11			Competitive and SC strategies	B.N.2
12			Achieving strategic fit	B.N.2
13			Case Study	

LO: Analyze the manufacturing operations of a firm and apply sales and operations planning, MRP and lean manufacturing concepts.

14	Unit 3	Dynamics of supply chain	Dynamics of supply chain	B.N.1
15			Supply Chain Interventions	B.N.1
16			Push-based	B.N.1
17			Pull-based	B.N.1
18			Push-Pull based supply chain	B.N.1
19			Network design and Operations in the Supply Chain	B.N.1
20			Case Study	

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LO: understand how supply chains behave in practice: reality and complexity and understand how to manage complexity in supply chains.

21	Unit 4	Inventory Management and Demand Forecasting in Supply Chain	Basic inventory models	B.N.3
22			Advanced inventory models	B.N.3
23			Multi-echelon inventory models	B.N.3
24			The value of information	B.N.3
25			Demand Forecasting methods	B.N.3
26			Bullwhip effect	B.N.3
27			Its Causes and remedial measures	B.N.3
28			Case Study	

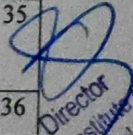
LO: To understand Overview of forecasting, Forecast errors, Aggregate planning in the supplychain, Managing demand and Managing capacity. To understand Overview of forecasting, Forecast errors, Aggregate planning in the supplychain, Managing demand and Managing capacity.

29	Unit 5	Transportation and strategic outsourcing in SC environment	Transportation in SC environment	B.N.4
30			Design options for a transportation network	B.N.4
31			Concept of outsourcing	B.N.4
32			Selection of supply chain service provider	B.N.4
			Case Study	

LO: Understand the components of an integrated logistics management system, Identify the decisions involved in transportation management and Describe the role of packaging in the transport, distribution, storage, sale, and use of goods.

33	Unit 6	Retailer	Retailer- Supplier partnerships	B.N.5
34			(RSP)	B.N.5
35			Supplier evaluation and selection	B.N.5
36			Use of best practices	B.N.5

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37			Case Study	
LO: To understand reason Supplier partnerships, vision, mission and goals of supplier partnership and to understand reason, principles, sourcing and selection of supplier.				
	Unit 7	Information Technology (IT) in Supply Chain Management	Information Technology (IT) in Supply Chain Management	B.N.2
39			SC performance model	B.N.2
40			SCOR Model	B.N.2
41			Application of Information Technology (IT) in Logistics	B.N.2
42			Application of Information Technology (IT) in Logistics and Supply Chain Management	B.N.2
43			Case Study	
LO: To develop logistics-related information technology concepts and their practical relevance,support the management in logistics and supply chain operation mode with the use of information technology.				
44			Revision and Test 1	
45			Revision and Test 2	

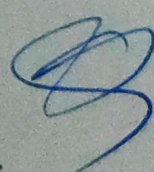
References

Books prescribed by the University

1. Gopalakrishnan Purchasing and Materials Management, 1e TMH 2008
2. Upendra Kachru Exploring the Supply Chain,Excel Books,2009
3. Agrawal Supply Chain Management: Text and Cases,2010, Macmillan Publishers
4. Janat Shah Supply Chain Management,2009, Pearson Education,2010
5. Badi N.V. Supply Chain Management.2010,Vrinda Publications

Additional books prescribed by the Tutor

1. Simchi Levi Designing and Managing the Supply Chain, 3e TMH 2006
2. Raghuram Logistic and Supply chain Management ,2006 Macmillan Publishers
3. Shapiro, Modelling the Supply Chain,2007 2 ed. New Delhi: Cengage Learning
4. Webster Principles & Tools for Supply Chain Management,2008, McGraw Hill.
5. Sunil Chopra Supply Chain Management: Strategy, Planning and Operation, 4/e, Pearson,2010

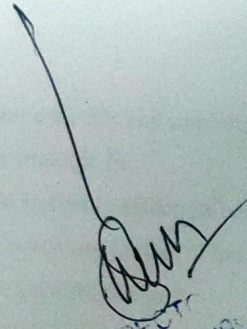

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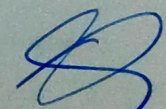
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