

DEPARTMENT OF MANAGEMENT STUDIES NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI TIRUCHIRAPPALLI - 620 015, TAMIL NADU, INDIA

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	COURSE PLAN - PAI	THE RESERVE OF THE PARTY OF THE	
Course Title	SUPPLY CHAIN MANAGEMENT		
Course Code	MB 732	No. of Credits	2
Course Code of Pre-requisite subject(s)	NIL		
Session	July 2023 - October 2023	Section	NA
Name of Faculty	Dr. Malolan Sundararaman	Department	MBA
Email	malolan@nitt.edu	Telephone No.	+91-431-2503716
Name of Course Coordinator(s) (if, applicable)	NIL		
Course Type	Core course	Elective co	urse

SYLLABUS

Unit I Building a strategic framework to analyze supply chains

Fundamentals of Supply Chain Management, Supply chain networks, Integrated supply chain planning, Decision phases in s supply chain, process view of a supply chain, supply chain flows, 27 Overview of supply chain models and modeling systems, Supply chain planning: Strategic, operational and tactical, Understanding supply chain through process mapping and process flow chart.

Unit II Designing the supply chain network

Supply chain strategies, achieving strategic fit, value chain, Supply chain drivers and obstacles, Strategic Alliances and Outsourcing, purchasing aspects of supply chain, Supply chain performance measurement: The balanced score card approach, Performance Metrics. Planning demand and supply: Demand forecasting in supply chain, Aggregate planning in supply chain, Predictable variability.

Unit III Planning demand and supply in a supply chain

Planning and managing inventories: Introduction to Supply Chain Inventory Management. Inventory theory models: Economic Order Quantity Models, Reorder Point Models and Multi echelon Inventory Systems, Relevant deterministic and stochastic inventory models and Vendor managed inventory models.

Unit IV Designing and planning transportation networks

Distribution Management: Role of transportation in a supply chain -direct shipment, warehousing, cross-docking; push vs. pull systems; transportation decisions (mode selection, fleet size), market channel structure, vehicle routing problem. Facilities decisions in a supply chain. Mathematical foundations of distribution management, Supply chain facility layout and capacity planning

Unit V Revenue Management

Role of Pricing and Revenue Management in a Supply Chain; Pricing and Revenue Management for Multiple Customer Segments; Pricing and Revenue Management for Perishable Assets; Pricing and Revenue Management for Seasonal Demand; Pricing and Revenue Management for Bulk and Spot Contracts. Role of IT in Pricing and

CC	Venue Management OURSE OBJECTIVES	
To	create an understanding on designing and managing supply	chain networks
	OURSE OUTCOMES (CO)	Aligned Programme Outcomes (PO)
1.	Understand supply chain concepts at macro and micro levels	1
2.	Implement the concepts to solve problems and derive insights	1, 3, 4
3.	Identify real life supply chain problems and address them	2, 3, 7

	COURSE TEACHING AND	는 경우를 가장하는 경우를 가는 것이 되었다. 나는 사람들은 보고 있는 것은 사람들은 사람들은 보고 있는 것은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들	Mode of Delivery
SI.	Week	Topic	
No.	3 rd week of July 2022 Class – 1 st week (2 Contact Hours)	- Giving access to NITT-Moodle - Fundamental concepts to supply chain - Supply chain networks - Supply chain planning & Decision Phases - Interactive O&A (*Assessment-4 begins)	Lecture – Recorded Video Lecture – Power Point Presentation (Blended Class)
2.	Class- 2 nd week (3 Contact Hours)	 Supply Chain Flows Supply Chain Views (Cycle and Pull-Push) Strategies and Strategic Fit Impellers and Drivers Achieving Strategic Fit 	Lecture – Recorded Video Lecture – Power Point Presentation (Blended Class)
3.	Class- 3 rd week (3 Contact Hours)	 Demand Forecasting Aggregate Planning Predictable Variability 	Lecture – Power Point Presentation (Blended Class)
4.	Class- 4 th week (3Contact Hours)	 Introduction to inventory management Cycle Inventory – EOQ Models Cycle Inventory – Aggregation Cycle Inventory – Quantity Discounts 	Lecture - Recorded Video Lecture - Power Point Presentation (Blended Class) Problem Solving
5.	Class- 5 th week (3 Contact Hours)	 Cycle Inventory – Quantity Discounts (Continued) Cycle Inventory – Trade Promotions Safety Inventory – Determination (ROP) Product Availability (Introduction) 	Lecture – Power Point Presentation Problem Solving
6.	Class- 6 th week (3 Contact Hours)	- Review Policies - ROP Determination - Product Availability – Determination	Lecture – Power Point Presentation Problem Solving
7.	7 th week (3 Contact Hours)	- Double Marginalization (Buy-Back and Revenue Sharing Contracts) - Sourcing Decisions	Lecture – power point presentation
8.	Class- 8 th week (3 Contact Hours)	- Modes and Design Options in SCM Transportation - Determining choice of transportation	Presentation
9.	Class – 9 th week (3 Contact Hours)	 Determining network design Pricing and Revenue Management Introduction Pricing and Revenue Management for Perishable Assets Pricing and Revenue Management for Seasona 	Presentation
10	Class - 10 th week (3 Contact Hours)	demand - Assignment-3 format disclosure - Pricing and Revenue Management for sport contracts - Role of IT in Revenue Management	Presentation
1	11. Class – 11 th (3 Contact Hours) - Case Study – Introduction - Case Study Theoretical Formulation (Coding Discussion)		Lecture-Discussion an Brainstorming
13	2. Class- 12 th week (3 Contact Hours)	 Case Study solution discussion Conducting Assignment-3 Assessment-4 ends 	Case Solution Discussion Assignment-2 Conduct Close evaluation of the

			"Interactive	Q&A"
			component	
13.	3rd week of October 2023	Trimester Exam Begins (Assessment -5)		
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COURSE ASSESSMENT METHODS				
Sl. No.	Mode of Assessment	Week / Date	Remarks	% Weightage
1.	Assignment-1 (Individual)	3 rd and 5 th Weeks	Individual assignment based on concepts covered in class	12%
2.	Assignment-2 (Individual)	7 th and 8 th Weeks	Individual assignment based on concepts covered in class	11%
3.	Assignment-3 (Team)	12 th week	Team classroom presentation	12%
4.	Interactive Q&A	1 st to 12 th week (continuous evaluation during all sessions)	Classroom interaction	15%
5.	Final Exam	October-2023	End Trimester (180 minutes)	50%

Note:

- 1. Attending all the assessments (Assessment 1 to 4) is MANDATORY for every student.
- 2. Every student is expected to score minimum 30% (i.e., 15 marks) in the Final Exam to pass the course. Otherwise, the student would be declared fail and 'F' grade will be awarded.

COURSE EXIT SURVEY

- Feedback is collected before the final examination through MIS or NITT-Moodle which is accessible to all students
- Students, either directly or through their Class Representatives, may give their feedback at any time to the course faculty which will be duly addressed
- The students may also give their feedback during Class Committee Meeting.

ATTENDANCE:

- Minimum 75% is mandatory to write the trimester examination. Students having attendance 65% to 74% are eligible for the end trimester exam only after attending the extra classes and submitting assignments. Students have to redo the course, if they have less than 65% of attendance.
- Medical Certificate / On Duty Certificate should be submitted immediately after rejoining.
- Attendance will be taken in the first 5 minutes of the class during live lectures.

COMPENSATION ASSESSMENT:

- Only one compensation assessment will be given for Assessments for the students those who are absent for any genuine reason for classroom assessment.
- The prior permission and required documents must be submitted for absence.

ACADEMIC HONESTY & PLAGIARISM:

- Avoid usage of electronic devices at classes, test and exam.
- The students (and teams) are expected to come out with their original solution for the problems given in the assignment. If found to copy from internet/other students (or teams), marks will be reduced without intimation.
- Need to maintain honesty & discipline in class room and exam hall.

ADDITIONAL INFORMATION

- The students can get their doubts clarified at any time with their faculty member with prior appointment.
- If arranged, guest lecture date will be intimated based on expert availability
- Submission of all assignments should be on the date informed. No late submission allowed.

FOR APPROVAL

Dr. Malolan Sundararaman Course Faculty Dr. V. J. Sivakumar Chairman (Class Committee) Dr. G. Muruganantham

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