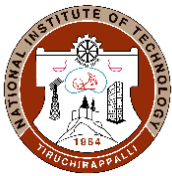


COURSE PLAN – PART I			
<b>Name of the programme and specialization</b>	MBA		
<b>Course Title</b>	Logistics Management		
<b>Course Code</b>	MB 874	<b>No. of Credits</b>	3
<b>Course code of pre-requisite subjects</b>	-		
<b>Session</b>	November - February 2022	<b>Section (if applicable)</b>	
<b>Name of Faculty</b>	Dr Yamini S.	<b>Department</b>	Management Studies
<b>Email</b>	<a href="mailto:syamini@nitt.edu">syamini@nitt.edu</a>	<b>Telephone No.</b>	9445371912
<b>Name of Course Coordinator(s) (if, applicable)</b>			
<b>Course Type</b>	<input type="checkbox"/> Core course <input checked="" type="checkbox"/> Elective course		
SYLLABUS (approved in BoS)			
<p><b>OBJECTIVE</b></p> <p><i>To create an understanding about the concepts of logistics and distribution management and their applications in the real situation.</i></p> <p><b>Unit I Logistics Management</b></p> <p>Definition of logistics and the concepts of logistics. Logistics Activities: Functions of the logistics system – transportation, warehousing, order processing, information handling and procurement.</p> <p><b>Unit II Materials Management</b></p> <p>Materials management functions and control, inventory management in logistics system, inventory decision-making, MRP, MRP II systems, multi-echelons.</p> <p><b>Unit III Distribution Management</b></p> <p>Outbound logistics, Facility location, Classical location problems, Strategic planning models for location analysis, location models, multi objective analysis of location models, An Overview Of Traditional Vehicle Routing Problems, Integrated Models Of Location And Routing, 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.</p>			



**Unit IV Importance of Logistics**

Logistics Customer Service, Modeling logistics systems, Simulation of logistic systems, cost effective distribution strategies, Value of information in logistics, E-logistics, risk pooling effect, International and global issues in logistics, Integrated functional activities in logistics, Role of government in international logistics and Principal characteristics of logistics in various countries and regions

**Unit V Logistics in different industries**

Third party, and fourth party logistics, Airline Schedule Planning, Railway Networks, Postal services, the maritime industries, health care industry and other service industries

**TEXT BOOKS:**

1. David Bloomberg, Stephen LeMay, Joe Hanna: Logistics, Prentice Hall 2001. ISBN: 013010194X
2. Thomas Teufel, Jurgen Rohricht, Peter Willems: SAP Processes: Logistics, Addison-Wesley, 2002. ISBN: 0201715147

**COURSE OBJECTIVES**

To create an understanding about the concepts of logistics and distribution management and their applications in the practical situation.

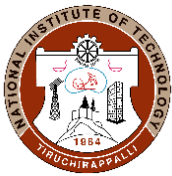
**MAPPING OF COs WITH POs**

<b>Course Outcomes</b>	<b>Programme Outcomes (PO)</b>
1. To associate logistic activities with other business activities	1,4
2. To know the current logistics trends	2,3,4,6
3. To learn how to reduce the logistics costs by applying Industrial engineering techniques	2,3,4,6,7
4. To design a logistics network and formulate a mathematical model	2,3,4,8
5. To understand the concepts of inventory control	1,2,4,5

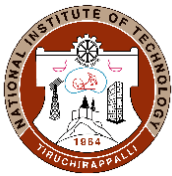
**COURSE PLAN - PART II**

**COURSE OVERVIEW**

This course will help you understand the logistic activities – know the relationship between logistics and supply chain, understand the third, fourth and fifth party logistics, establish mathematical models for transportation and routing, to make operational decisions related to warehouse management, to establish inventory control models



<b>COURSE TEACHING AND LEARNING ACTIVITIES</b>			
<b>S. No</b>	<b>Week</b>	<b>Topic</b>	<b>Mode of Delivery</b>
1	1	Definitions of Logistics, Objectives of Logistics, Concept of Logistics Logistics Functions	Lecture, PPT
2	2	Inventory Management in Logistics Systems: Managing inventory under uncertain demand; Risk sharing models	PPT, In-class Activity
3	3	Centralised and Decentralised Logistics Management, Material Requirement Planning (MRP I) I, MRP II	PPT, Lecture
4	4	Distribution Management: Classical Location Problems, Facility Location Analysis, Role of transportation in a supply chain, Direct Shipment: Transportation Model	In-class Activity, Hands-on Session
5	5	Shipment via Distribution center: Transshipment Models, Tailored Network, Network Distribution Models: Finding Shortest Path	In-class Activity, Hands-on Session
6	6	Network Distribution Models: Maximum Flow problem, Vehicle Routing Problem, Modelling Logistic System: Trade-off in Transportation Design	In-class Activity, Hands-on Session
7	7	Cost effective distribution strategies, E-Logistics, Role of IT in Transportation, Risk Management in Transportation, Value of Information in Logistics	PPT, Lecture, In-class Activity
8	8	Logistics Outsourcing: Third Party and fourth party Logistics, Airline Schedule Planning, Health care and other service industries	PPT, Lecture, Class-room Discussion
9	9	Guest Lecture: Logistics in Different Industries	PPT, Class-room Discussion
10	10	Assignment Presentations, International and Global issues in Logistics, Integrated Functional activities in Logistics Review of Topics	Presentation, Class-room Discussion, Lecture



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<b>COURSE ASSESSMENT METHODS</b> (shall range from 4 to 6)				
<b>S.No</b>	<b>Mode of Assessment</b>	<b>Week / date</b>	<b>Duration</b>	<b>% Weightage</b>
1	Cycle test I	29 <sup>th</sup> September 2020	1 hour	15 %
2	Mid-Term Examination	23 <sup>rd</sup> October 2020	2 Hour	30 %
3	Assignment Submission and Presentation	10 <sup>th</sup> November 2020		25 %
4	Final Assessment	November 2020	2.5 hours	30 %
<b>*mandatory; refer to guidelines on page 4</b>				
<b>COURSE EXIT SURVEY</b> (mention the ways in which the feedback about the course shall be assessed)				
Feedback received from student's anonymous survey				
<b>COURSE POLICY</b> (including compensation assessment to be specified)				
<b>Mode of Correspondence:</b> e-mail / Phone				
<ul style="list-style-type: none"><li>• Retest will be conducted only to the students who got prior permission before the Mid-Term Examination</li><li>• Assignment late submissions will not be allotted any marks</li></ul>				



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## **ATTENDANCE POLICY** (A uniform attendance policy as specified below shall be followed)

- At least 75% attendance in each course is mandatory.
- A maximum of 10% shall be allowed under On Duty (OD) category.
- Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.

## **ACADEMIC DISHONESTY & PLAGIARISM**

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
- Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.
- The above policy against academic dishonesty shall be applicable for all the programmes.

## **ADDITIONAL INFORMATION, IF ANY**

For Approval

Course Faculty: \_\_\_\_\_ CC Chairperson: \_\_\_\_\_ HOD: \_\_\_\_\_

### **Guidelines:**

- a) The number of assessments for a course shall range from 4 to 6.
- b) **Every course shall have a final assessment on the entire syllabus with at least 30% weightage.**
- c) **One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.**
- d) **The passing minimum shall be as per the regulations.**

B.Tech. Admitted in

P.G.