

Birla Institute of Technology & Science, Pilani
Work-Integrated Learning Programmes Division

First Semester 2010-2011
Course Handout

Course No. : QMJ ZG621

Course Title : **Supply Chain Management**

Course Description

Customer driven strategies in production and distribution systems; Integrated production and distribution networks; SCM in the context of JIT and MRP – II; Distribution Resource Planning; Management of dealer networks; total control and Product innovation across the supply chain; Incoming logistics and supplier relationships; Value addition analysis; Metrics for management of supply chain performance; Mathematical models and computer assisted decision support for SCM; Mathematical Programming for SCM.

Scope & Objectives

After successful completion of the course, the student will be in position to

- Achieve a good foundation in logistics engineering and management.
- Explain the concept and importance of logistics management in manufacturing management for continuous improvement of the organization.
- Develop capability and skills in handling of decision making in design, planning and control of logistics management.

Prescribed Text Book

T1. Chopra Sunil & Peter Meindl, Supply Chain Management, Pearson Education, 3rd Ed., 2006.

Reference Books

- R1. John T Menzer, Supply Chain Management, Response Books (Sage Publishers, 2001).
- R2. John J. Coyle, Edward J. Bardi and C. John Langley Jr. “The Management of Business Logistics: A Supply Chain Perspective” Thomson Asia, 7th Edition.
- R3. Ronald H. Ballou, “Business Logistics/Supply Chain Management”, Pearson Education, India, Fifth edition, 2003.

Week No.	Topics	Reference to Text Book
1	Understanding the Supply Chain	T1- Chapter 1
2	Supply Chain Performance: Achieving Strategic Fit and Scope	T1- Chapter 2
3	Supply Chain Drivers and Metrics	T1- Chapter 3
4	Designing Distribution Networks and Applications to e-Business	T1- Chapter 4
5	Network Design in the Supply Chain	T1- Chapter 5
6	Network Design in an Uncertain Environment	T1- Chapter 6
7	Demand Forecasting in a Supply Chain	T1- Chapter 7
8	Aggregate Planning in the Supply Chain	T1- Chapter 8
<i>Syllabus for Mid-Semester Test (Closed Book): Topics in Week No. 1 to 8</i>		
9	Planning Supply and Demand in the Supply Chain: Managing Predictable Variability	T1- Chapter 9
10	Managing Economies of Scale in the Supply Chain : Cycle Inventory	T1- Chapter 10
11	Managing Uncertainty in the Supply Chain: Safety Inventory	T1- Chapter 11
12	Determining Optimal Level of Product Availability	T1- Chapter 12
13	Transportation in the Supply Chain	T1- Chapter 13
14	Sourcing Decisions in a Supply Chain	T1- Chapter 14
15	Pricing and Revenue Management in the Supply Chain	T1- Chapter 15
15-16	Information Technology in a Supply Chain	T1- Chapter 16
	Coordination in a Supply Chain	T1-Chapter 17
<i>Syllabus of Comprehensive Examination (Open Book) All topics given in Plan of Self Study</i>		

Evaluation Scheme:

EC No.	Evaluation Component & Type of Examination	Duration	Weightage	Day, Date, Session, Time
EC-1	Mid-Semester Test (Closed Book)*	2 Hours	40%	Sunday, 29/08/2010 (AN)* 2 PM – 4 PM
EC-2	Comprehensive Exam (Open Book)*	3 Hours	60%	Sunday, 24/10/2010 (AN)* 2 PM – 5 PM

*** Legend:**

AN: AfterNoon Session; FN: ForeNoon Session

Closed Book Test: No reference material of any kind will be permitted inside the exam hall.

Open Book Exam: Use of any printed / written reference material (books and notebooks) will be permitted inside the exam hall. Loose sheets of paper will not be permitted. Computers of any kind will not be allowed inside the exam hall. Use of calculators will be allowed in all exams. No exchange of any material will be allowed.

Note:

It shall be the responsibility of the individual student to be regular in maintaining the self study schedule as given in the course handout, attend the online/on demand lectures as per details that would be put up in the BITS WILP website www.bits-pilani.ac.in/dlp-home and take all the prescribed components of the evaluation such as Mid Semester Test and Comprehensive Examination according to the Evaluation Scheme given in the respective Course Handout. If the student is unable to appear for the Regular Test/Examination due to genuine exigencies, the student must refer to the procedure for applying for Make-up Test/Examination, which will be available through the **Important Information** link on the BITS WILP website on the date of the Regular Test/Examination. The Make-up Tests/Exams will be conducted only at selected exam centres on the dates to be announced later.

Instructor-in-Charge