(Textile Engineering Department)

Graduate

Course Title: Principles of Logistics & Supply Chain

Lecturer: Dr. Reza Ghasemi Yaghin

Course Topics:

- Ordering, Customer service levels Ordering in dependent demand systems
- Basic concepts in SCM, History and its importance Some illustrative examples especially in textile and clothing industry Exploring logistics activities in SCs
- Supply chain evaluation Process -based models SCOR model and modelling with SCOR Supply chain performance measurement
- Coordination and Integration
- Purchasing management, Procurement and sourcing
- Global supply chains Global sourcing in clothing industry
- Production systems, warehousing and inventory management
- Production systems, warehousing and inventory management The role of inventories
- SCM house, competitive goals and identifying parts of SCM house Types of supply chains
- Supply chain evaluation Process -based models SCOR model and modelling with SCOR Supply chain performance measurement
- Supply chain planning Introducing the supply chain planning matrix
- Demand management Demand seasonality in clothing supply chains Beer game and bullwhip effects Dealing with the effects
- Distribution and sales Distribution channels and their important roles
- e-Supply chains-Some example of e-SCs in clothing industries Electronic data interchange Barcoding in SCs
- Physical distribution and Logistics, Logistics history
- Inventory management and risk pooling An example of apparel industry

Reading Resources:

- Simchi-Levi, D., Kaminsky, P., & Simchi-Levi, E., 2008. Designing and managing the supply chain (3rd ed.). Boston: McGraw-Hill Irwin.
- Ballou, R.H., (2004). Business logistics/supply chain management: planning, organizing, and controlling the supply chain, Pearson/Prentice Hall.
- Martin Christopher, Logistics and Supply Chain Management, 3rd Ed, FT Prentice Hall, 2005.