



Wollo University
Kombolcha Institute of Technology
Industrial Engineering Department



Course Title:Supply Chain Management and Logistics
Course code :IEng 3120, Credit hr: 3 ECTS: 5Contact hour: (2 Lec+3tutorial)
Target group: 3rd year Industrial Engineering Students
Instructor Name: Zemenawit M.
Email: zemenawitmoges19@gmail.com
zemimogi@yahoo.com

Course objective:

At the end of this course students will be able to;

- Develop an appreciation for the challenges in managing a supply chain
- Use analytical tools and conceptual frameworks to design and optimize a supply chain in a wide variety of setting
- Develop analytical and modeling skills, and to provide new concepts and problem-solving tools, applicable to the design and planning of supply chains

Course Description:

Concept of supply chain and supply chain management, supply chain management and its development, IT for supply chain management, supply chain design and strategies, concept about logistics, the role of logistics in supply chain, reverse logistics, introduction to vehicle routing, introduction to fleet management, introduction to revenue management.

Weeks	Course Outline	Activities
Week1	1. Introduction to supply chain management <ul style="list-style-type: none"> ➤ Definition of SCM ➤ Supply Chain Management Processes ➤ SCM and its development. ➤ IT for supply Chain Management (Virtual Supply Chains) 	Lecture Group discussion & Quiz[5 %]
Week 2		
Week 3& 4	2. Supply Chain Design and Strategies <ul style="list-style-type: none"> ➤ Supply Chain Network Design ➤ Agile & Reverse Supply Chain Management ➤ Green Supply Chain Management ➤ Supply Chain Performance Measure 	Lecture Group discussion & Quiz[10 %]

Week 5 & 6	3. Introduction to Logistics <ul style="list-style-type: none"> ➤ Definition and Scope of Logistics ➤ Relationship b/n logistics and other functional areas ➤ The role of logistics in supply chain 4.Reverse Logistics	
	Mid Exam 20%	
	Project 15%	Lecture & Discussion
Week 7	5. Introduction to vehicle routing	
Week 8	6. Introduction to Fleet Management	
Week 9	7. Introduction to Revenue Management	
Week > =10	Final Group Project Paper submission, Evaluation and Presentation.	Final Exam [50%]
Pre-requisites	Production Planning and Control I	
Co-requisites	No	
References:		
1. Chopra, Sunil and Peter Meindl (2006).Supply Chain Management., 3rd Ed.		
2. Hugos, Michael.Essentials of Supply Chain Management, 2nd Ed. John Wiley: 2006		
Teaching Methods: Lectures supported by tutorials, Seminars and presentations and Industrial visits		
Projects: Case study analysis		
Attendance Requirement: 80% attendance during lecture hours; 100% attendance during seminars and presentation sessions, except for some unprecedented mishaps.		
Hours per semester: 64 hours		