

MGMT411e Logistics Management for Aviation/Aerospace

Level: 4

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY SEMESTER

E-Learning: BLENDED - Learning is done MAINLY online using interactive study materials in Canvas. Students receive guidance and support from online instructors via discussion forums and emails. This is supplemented with SOME face-to-face sessions. If the course has an exam component, this will be administered on-campus.

Synopsis:

Students are provided with an opportunity to examine ways to optimize the physical flow of goods and materials within a firm from acquisition through production, and movement through channels of distribution. The course focuses on applying logistics theory to aviation management problems in materials handling, managing inventory, planning capacities, and locating distribution centers. Case studies with aviation/aerospace applications using computer models are included.

Topics:

- Supply Chain and Logistics Management
- Customer Accommodation
- Logistics Information Systems and Technology
- Inventory Management
- Transportation Systems and Transportation Management
- Warehousing
- Packaging and Materials Handling
- Global Logistics
- Logistics Organization, Integration and Relationship Development
- Performance Measurement
- Military Logistics (Optional Topic)

Learning Outcome:

- Discuss the role of logistics management in the aviation/aerospace industry and address major contributors to the body knowledge.
- Develop and understanding of the importance of logistics and supply chain management within manufacturing and service organizations and the economy as a whole.
- Understand the importance of customer service measures as a key indicator of logistics system effectiveness and the importance of improving customer service performance.
- Understand the role of information systems and internet technology in inventory management, order processing and supply chain integration. Understand the significance of the growth of electronic commerce on logistics systems.
- Appraise those factors and processes involved in logistics system planning and describe the nature and techniques of strategic logistics planning.
- Explain and understand methods for controlling the logistics operating system through inventory management and project management and, apply appropriate techniques for execution.
- Examine the role of transportation in the logistics system. Comprehend issues associated with transportation rates, carrier selection and transportation productivity.
- Understand the role and importance of warehousing in the logistics system and cost and customer service issues associated with warehouse management.
- Understand issues associated with product packaging from logistics and marketing standpoints.
- Understand major global supply chain strategies and controllable and uncontrollable factors which influence global logistics activities.
- Understand the concept of total costs and the trade-offs that exist within the logistics system and the supply chain and firm as a whole.
- Research a class topic assigned by the instructor in the current literature/on the internet, and present an example of how a company (preferably in the aerospace/aviation industry) addresses the assigned topic.

Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	TUTOR-MARKED ASSIGNMENT 1	100
Total		100