IE 5341 – Advanced Production and Inventory Control

Course Catalog: IE 5341 – Advanced Production and Inventory Control (3-0)

This course emphasizes inventory control management for production planning and includes topics in inventory control, forecasting, lot sizing, dispatching, scheduling, and releasing, kitting, MRP and just-in-time models. Strong emphasis on the solution and research of existing production and inventory control problems. Prerequisite: Department Approval


Journal research publications are provided.

Topics Covered:
1. Inventory Framework
2. EOQ Variations
3. Lot sizing techniques
4. model with probabilistic demand
5. managing special item classes
6. perishable item inventory
7. supply chain
8. MRP
9. Just in Time
10. Term project preparation

Assessment of Course Outcomes:
1. Three Examinations
2. Assignments
3. Final Project
4. Class Participation
5. Final Examination

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