IE 5357 – Computer Simulation Applications

Course Catalog: IE 5357 – Computer Simulation Applications (3-0)

An introduction to the concepts of simulation methodology as applied to the design and analysis of industrial systems. Specialized computer simulation language is applied to an industrial analysis or design term project. Prerequisite: Department Approval


Journal research publications are provided.

Topics Covered:
1. Montecarlo Simulation
2. Mechanics of Discrete Event Simulation
3. Input data preparation
4. Generation of random numbers
5. Random variante generation
6. Modeling detailed operations
7. Statistical analysis of output
8. Steady state statistical analysis
9. 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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