IE 5316 – Advanced Work Design

Course Catalog: IE 5316 – Advanced Work Design (3-0)

This course will focus on the theoretical and practical issues concerning the design of work. It will provide a thorough coverage of the principles of industrial safety, plant layout and design, and methods engineering from a productivity and quality man-machine system perspective. This course will consist of lectures, class discussions, and student projects.


References: Upon Request

Topics Covered:
1. Methods analysis
2. Manual work design
3. Workstation and tool design
4. Work environment design
5. Work sampling
6. Time determination
7. Standard data
8. Predetermined time systems

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

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