



# National University of Sciences and Technology

## Course Description

<b>Course Title</b> Industrial Design and Human Factors	<b>Course Code</b> ME 835	<b>Credit Hours</b> 3 – 0
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### Textbook:

- Human Factors in Engineering and Design by Mark Sander and Ernest McCormick.
- Human Factors Design Handbook by Wesley Woodson , Peggy Tillman , Barry Tillman

### Reference Books:

- The Design of Everyday Things by Don Norman
- Introduction to Ergonomics, R.S. Bridger, ISBN 0849373069
- Occupational Ergonomics - Principles and Applications, Fariborz Tayyari, ISBN 0412586509
- Textbook of Work Physiology, Per-Olof Astrand, ISBN 0736001409

### Course Objective:

- To make students capable enough to integrate human factor in the design process.

### Course Outline:

- The concept of user centered design; visual and emotive qualities; modeling as a basis for development, evaluation, and communication; principles of ergonomics, physical characteristics of humans and qualitative and analytical methods of human centered design.

### ASSESSMENTS

Description	Percentage Weightage (%)
Assignments	05-10%
Quizzes	10-15%
Mid Semester Exams	30-40%
End Semester Exam	40-50%