	National University of Sciences and Technology	
	Course Description	
Course Title Cognitive Ergonomics in Design	**Course Code** **ME 830**	**Credit Hours** **3 – 0**

Textbook:

- "Introduction to human factors and ergonomics for engineers" by Mark R. Lehto, James R. Buck
- "A guide to human factors and ergonomics" by Martin Helander
- "Ergonomics: How to Design for Ease and Efficiency" by K.H.E. Kroemer, H.B. Kroemer and s K.E. Kroemer-Elbert

Course Objective:

- Students will be made capable to incorporate human factor and ergonomics in the design phase of the product development.

Course Outline:

- The relevance of the paradigm of applied cognitive psychology to human-centred design, key models of human performance and theories of cognition, and their relevance in design, systems model of performance and its implications for complex socio-technological systems, specific ergonomic theories to specific design contexts, The human factors implications of a product or system design, concepts of product and system design with respect to cognitive ergonomics.

ASSESSMENTS

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