

NIRMA UNIVERSITY
Industrial Design Programme
Bachelor of Design, Department of Design
Year II, Semester III

L	T	P	C
1		1.5	2

Course Code	DTH 217
Course Title	Ergonomics I
Credits	2
Teaching hours:	37.5

Course Learning Outcomes (CLO):

At the end of the course the students will:

1. Understand the human factors involved in Object- User Interface through theoretical and practical orientation
2. Become conversant with human comfort factors involved in the use of objects, devices and work environments
3. Comprehend and apply International norms and standards
4. Articulate variations/deviations based on ethnographic and cultural conditions

Syllabus:

- History of Ergonomics
- Study of body structure & skeleton
- Human Anatomy Study
- Understanding Anthropometric data of adult male & female and children's physical structures
- Human hand and skill functions
- Environmental Comfort levels for humans related to factors such as sound, temperature etc.

Lectures: Introduction to Ergonomics:

1. Study of human body and the structure
2. Study of human factors in Design
3. Study of Ergonomics in Design- 5th to 95th Percentile
4. Methods to study Products and aspects of ergonomic considerations

Suggested Reading:

1. *Measure of Man*, Henry Dreyfus
2. *Ergonomics (NID Publication)*, Deb Kumar Chakrabarty

w.e.f. Academic year _2018 and onwards

Key: L= Lecture, T= Tutorial, P= Practical, C= Credit