

**NIRMA UNIVERSITY**  
**INDUSTRIAL DESIGN PROGRAM**  
**Bachelor of Design, Department of Design**  
**Year II, Semester IV**

L	T	P	C
		1.5	2

<b>Course Code</b>	<b>DTH 228</b>
<b>Course Title</b>	<b>Ergonomics II</b>

**Course Learning Outcome (CLO):**

At the end of the course the students will:

1. Articulate their project's design brief based on a clear understanding of human factors- interaction between product, associated needs, function, context and environment of use, capabilities and limitations of the object/device and semantics involved
2. Understand and base their design solutions on issues of cognitive Ergonomics and Human Factors

**Syllabus:**

**Teaching hours: 22.5 hours**

**Unit 1: Cognitive psychology**

**Teaching hours: 6 hours**

- 1.1 Principles of Human cognition in the real world
- 1.2 Memory, human behaviour and cognition

**Unit 2: Principles of Cognitive Design**

**Teaching hours: 6 hours**

- 2.1 Application of Cognitive ergonomics in design
- 2.2 Productivity and cognition

**Unit 3: Cognitive task analysis**

**Teaching hours: 10.5 hours**

- 3.1 Cognitive ergonomics and user experience in Product Design.
- 3.2 Introduction to task analysis tools and methods its relevance to industrial design

**Suggested Reading**

1. Measure of Man – By Henry Dreyfuss
2. Indian Anthropometric dimensions for Ergonomics Design Practice Deb Chakrabarty

w.e.f. Academic year \_2018 and onwards

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