Course Code	HP3003	
Course Title	The Psychology of Everyday Design	
Pre-requisites	HP1000 Introduction to Psychology	
	HP1100 Fundamentals of Social Science Research	
	HP2600 Cognitive Psychology	
No of AUs	3	

Course Aims

The course aims to teach psychological knowledge about human performance and how to apply the knowledge to the design of human-technological systems. It spans psychophysics, cognitive psychology, ergonomics, human-computer interaction, and engineering design. It covers core concepts in memory, attention, learning, problem-solving, human error, and information theory. It also teaches methods and techniques for the design and evaluation of everyday human-technological interfaces.

This course is in deep connection with other key courses of the program such as Introduction to Psychology, **Fundamentals of Social Science Research**, and Cognitive Psychology.

Intended Learning Outcomes (ILO)

After this course, you should be able to:

- 1) Describe basic psychological theories that can be applied to the design of humantechnological systems
- 2) Identify research questions in the area of human-technology interaction
- 3) Use psychological principles to explain why certain design solutions work or do not work.
- 4) Apply methods such as task analysis and usability study to identify and solve design problems in human-technological systems
- 5) Summarize and present research methods and findings used in a research project on the design of a human-technological system to an academic or professional audience via both written and oral presentation

Course Content

Introduction, attention and perception, signal detection, user-centered design, emotional design, sociable design, culture and design, creativity and design.

Assessment (includes both continuous and summative assessment)

Component	ILO Tested	Related Programme LO or Graduate Attributes	Weighting	Team/Individual
1. Reflection	1, 2, 3,	Competence & critical	30%	Individual
papers		thinking & written and oral		
2. Research paper	1, 2, 3,	Competence & critical thinking & written communication & teamwork	30%	Team

3. Final Presentation	5	Competence & critical thinking & written and oral communication& teamwork	30%	Team
4. Class participation	1,2,3	Competence & critical thinking	10%	Individual
Total			100%	

Formative feedback

Feedback will be provided regarding students' ability to recall and apply key concepts and principles in the psychology of design through in-class activities. Students will receive verbal feedback during the meetings and discussions regarding their final project topic and procedures, as they will be encouraged to discuss with the instructor about their chosen topic in advance. Students will receive verbal feedback regarding the methods and findings, and their presentation skills and during their final presentation. Students will receive written feedback regarding the quality and areas for improvement of their reflection papers in their assignments.

Learning and Teaching approach

Approach	How does this approach support you in achieving the learning outcomes?
Lecture	The class will be conducted in a manner that combines elements of a lecture and seminar. This approach will promote individual learning as well as interactive, team-based learning through in-class discussion. Both the lecture and discussion will encourage students to think critically about the psychological principles behind design and practice psychological methods to solve design problems.

Reading and References

Norman, D. A. (1988). The psychology of everyday things. New York: Basic Books. Norman, D. A. (2005). Emotional Design: Why We Love (or Hate) Everyday Things. New York, NY: Basic Books.

Course Policies and Student Responsibilities

(1) General

You are expected to complete all assigned pre-class readings and activities, attend all classes punctually and take all scheduled assignments and tests by due dates. You are expected to take responsibility to follow up with course notes, assignments and course related announcements for sessions you have missed. You are expected to participate in all class discussions and activities.

(2) Absenteeism

Absence from class without a valid reason will affect your overall course grade. Valid reasons include falling sick supported by a medical certificate and participation in NTU's approved

activities supported by an excuse letter from the relevant bodies. If you miss a lecture, you must inform the course instructor via email prior to the start of the class.

3) Compulsory assignments

You are required to submit your assignments and research paper by the due date, and do the final presentation on a designated date.

Academic Integrity

Good academic work depends on honesty and ethical behaviour. The quality of your work as a student relies on adhering to the principles of academic integrity and to the NTU Honour Code, a set of values shared by the whole university community. Truth, Trust and Justice are at the core of NTU's shared values.

As a student, it is important that you recognize your responsibilities in understanding and applying the principles of academic integrity in all the work you do at NTU. Not knowing what is involved in maintaining academic integrity does not excuse academic dishonesty. You need to actively equip yourself with strategies to avoid all forms of academic dishonesty, including plagiarism, academic fraud, collusion and cheating. If you are uncertain of the definitions of any of these terms, you should go to the <u>academic integrity website</u> for more information. Consult your instructor(s) if you need any clarification about the requirements of academic integrity in the course.

Planned Weekly Schedule

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Week	Topic	ILO	Readings/ Activities
Week 1	Introduction: The	1	2 hour lecture + 1
	Psychology of Design		hour group discussion
Week 2	Theory of Attention	1,2,3,4	2 hour lecture + 1
	and Perception		hour group discussion
Week 3	Theory of Signal	1,2,3,4	2 hour lecture + 1
	Detection and Models		hour group discussion
	of Human-technology		
	interaction		
Week 4	User-centered Design	1,2,3,4	2 hour lecture + 1
	I: Theory and		hour group discussion
	Principles		
Week 5	User-centered Design	1,2,3,4	2 hour lecture + 1
	II: Methods and		hour group discussion
	Analysis		
Week 6	Emotion and Design	1,2,3,4	2 hour lecture + 1
			hour group discussion
Week 7	Social and Design	1,2,3,4	2 hour lecture + 1
			hour group discussion
Week 8	Culture and Design	1,2,3,4	2 hour lecture + 1
			hour group discussion
Week 9	Creativity and Design	1,2,3,4	2 hour lecture + 1
			hour group discussion
Week 10	Complexity and	1,2,3,4	2 hour lecture + 1
	Design		hour group discussion

Week 11	Product design and evaluation in the	1,2,3,4	2 hour lecture + 1 hour group discussion
	industry		nour group alsoussion
Week 12	Student research	1,2,3,4,5	Student
	project presentation		presentations
Week 13	Student research	1,2,3,4,5	Student
	project presentation		presentations