Course Code:	PSY301
Course Name	Cognitive Psychology
Credits	4
Course Offered to	UG
Course Description	In this introductory course we investigate the mechanisms of human thinking. Particularly we will explore the basic mental processes such as how our brains let us “view” and “understand” the world, how our perceptions depend on our current state of attention, and how our memories and perceptions can change over time with our own experiences. In this process of better understanding the human mind, we’ll discuss language abilities and the mental representation of concepts and schemas. We’ll also look at various actions that people take in different situations—from simple visual illusions, to strategic higher order decisions to grave mistakes in higher-level decision-making. In this context we will discuss how these “successes” and “failures” provide unique insights into the mechanisms of human thinking.

Prerequisites

Pre-requisite (Mandatory)	**Pre-requisite (Desired)**	**Pre-requisite (Other)**
Introduction to Psychology	N/A	

Course Objectives

CO1	**CO2**	**CO3**	**CO4**	**CO5**
Students will understand the historical development of the field of cognitive psychology	The students will be able to recognize several theories, and compare and contrast these theories in terms of their underlying processes and their performance predictions	Students will be able to generate and explain examples that demonstrate or test theories or concepts within various cognitive psychology domains	Students will be able to apply principles and theories to real world contexts and problems	Students will be able to explain the various neuroscience measures (CT scans, PET scans, fMRI's) and how they are used to provide evidence for cognitive theories.

Weekly Lecture Plan

Week Number	**Lecture Topic**	**COs Met**	**Assignments/Lab/Tutorials**
Week-1	History and foundations of Cognitive psychology	CO-1	
Week-2	Brain and Cognition- Brain and cognition	CO-2, CO-3, CO-4	
Week-3	Attention- Theories of Attention | Spatio-visual Selection| Attention |Consciousness	CO-2, CO-3, CO-4	
Week-4	Perception- Visual perception | Non-visual perception	CO-2, CO-3, CO-4	
Week-5	Memory- Models of Memory | Working Memory | Exceptional Memories	CO-2, CO-3, CO-4	
Week-6	Memory-Encoding | Retrival	CO-2, CO-3, CO-4	
Week-7	Storage / Retrieval- Visual storage | Non-Visual storage |Cognitive Maps	CO-2, CO-3, CO-4	
Week-8	Organization of Knowledge-Declarative vs. Procedural | Primal & Parallel Processing	CO-2, CO-3, CO-4	
Week-9	Language-1-Listening |Reading |Syntax |Semantics |Discourse	CO-2, CO-3, CO-4	
Week-9	Language-2-Language and Thought | Neurophysiology and Non-Human beings	CO-2, CO-3, CO-4	
Week-10	Reasoning-Inductive | Deductive reasoning |Problem solving | Expertise	CO-2, CO-3, CO-4	
Week-11	Creativity-Creative thinking	CO-2, CO-3, CO-4	
Week-12	Research methods in cognitive psychology	CO5	

Assessment Plan

Type of Evaluation	**% Contribution in Grade**
Homework Assignments	20%
Exam 1	25%
Exam 2	25%
Exam 3	30%
In class quizzes	10%

Resource Material

Type	**Title**
Textbook	N/A
Reference Book	Sternberg, R. J. & Sternberg, K. (2017). Cognitive Psychology. Belmont, CA: Wadsworth
Readings	Will be assigned each week by the instructor