



BS (4 Years) for Affiliated Colleges

Code	Subject Title	Cr. Hrs	Semester
APSY-231	Cognitive Psychology	3	III
Year	Discipline		
2	Applied Psychology		

Course Objectives

This course provides an understanding of the mental processes involved in cognition, perception, attention, memory, thinking, language and reasoning processes. The core focus will be on how information is received, perceived, filtered, stored, retrieved and conveyed and it will provide an understanding of the mental processes through which information is acquired, processed and conveyed.

Course Outcome

After completing this course students will be able to:

- think critically about the internal processes involved in human cognition.
- articulate the basic principles, major theories, and research concerning higher mental processes.

Course Contents

Introduction

Nature and Scope of Cognitive Psychology
Historical Perspective

Neural Basis of Cognition

Neural representation of information
Organization of the brain and neural localization of function
Information coding in visual cells

Perception and Attention

Sensory memory: Iconic memory & echoic memory
Pattern recognition: Template matching and Feature Analysis
Speech recognition and Voice onset time
Perceptual Laws of Organization
Object Perception
Spatial vs. linear representation
Depth Perception
Colour Perception
Perception of Movement

Knowledge Representation

Perception based knowledge
Meaning based knowledge

Memory

Implicit and Explicit memory
Retention in episodic memory
Working memory and long term memory
Interference: Fan effect
Recall vs. recognition

Thinking and Problem solving

Mean –end Analysis
Problem Solving by Analogy
Heuristic and algorithms

Reasoning

Deductive and inductive reasoning
Conditional reasoning
Syllogism

Language

Language comprehension: Parsing, Semantic considerations and Utilization.
Language and thought
Child language Acquisition
Psycholinguistics
Linguistic Determinism
Transformational Grammar

Recommended Books

Friedenberg, J. (2012). *Cognitive science* (2nd ed.). Los Angeles: Sage.
Galotti, K. M. (2013). *Cognitive psychology in and out of the laboratory*. Thousand Oaks: SAGE Publications.
Groome, D. (2013). *An introduction to cognitive psychology: Processes and disorders*. London: Psychology Press.
Kellogg, R. T. (2012). *Fundamentals of cognitive psychology* (2nd ed.). Los Angeles: Sage.
Medin, D., Ross, B., & Markmen (2005). *Cognitive psychology*. (4th ed.). UK: JohnWileyInc.
Parkin, A. J. (2013). *Essential cognitive psychology: Classic edition*. Hove, East Sussex: Routledge.
Reed, S. K. (2000). *Cognition* (5thed.). Belmont: Wadsworth / Thomson Learning.
Reisberg, D. (2013). *The Oxford handbook of cognitive psychology*. Oxford: Oxford University Press
Robinson-Riegler, G. (2012). *Cognitive psychology* (2nd ed.). South Asia: Pearson.
Sternberg, R. J. (2005). *Cognitive psychology*. New York: Wadsworth.
Sternberg, R. J. (1999). *Cognitive psychology* (2nd ed.). New York: Harcourt College Publishers.
Sternberg, R. J., Sternberg, K., & Mio, J. S. (2012). *Cognitive psychology*. Australia: Wadsworth/Cengage Learning
