DSE4-L : Psychological Tests and Psychological Experiments

Semester 6

Objectives

1. To develop an understanding of core cognitive processes such as attention, perception, thinking, problem solving, learning, and memory through selected experimental paradigms.
2. To familiarize students with psychological phenomena like divided attention, perceptual illusions, and memory inhibition along with their theoretical explanations.
3. To introduce basic statistical techniques such as rank difference correlation, chi-square test, and product moment correlation for psychological data analysis

Expected Outcomes

1. Students will be able to explain key cognitive processes including attention span, perceptual mechanisms, and problem-solving behavior using psychological experiments.
2. Students will understand and interpret learning and memory processes such as transfer of learning, serial learning, and memory inhibition.
3. Students will be able to apply basic statistical tools like correlation and chi-square in analyzing psychological data and research findings.

Unit 7: Attention (any one)
6.1 Divided attention
6.2 Span of attention
6.3 Stroop effect

Unit 8: Perceptual Processes (any one)
7.1 Illusion
7.2 Size constancy
7.3 Retinal color zones
7.4 Reaction time
7.5 Depth perception

Unit 9: Thinking and Problem Solving (any one)
8.1 Effect of mental set on problem solving
8.2 Maze learning
8.3 Problems solving – Pyramid puzzle / Wiggly Blocks / Heart-and-Bow puzzle

Unit 10: Learning (Any One)
9.1 Bilateral transfer
9.2 Effect of knowledge of results
9.3 Habit interference
9.4 Serial learning

Unit 11: Memory (any one)

10.1 Recall and recognition
10.2 Retroactive inhibition / Proactive inhibition
10.3 Short Term Memory

Unit 12: Statistics II (For 1 Credit)
1. Rank Difference Correlation and Chi-square
2. Product moment correlation