

**Type: Major**

**Course Objectives**

The objective of this course is to help students learn the practical application of scientific nature of different psychological and psycho-physiological processes. The course includes different experiments with the help of which the students will be able to demonstrate the applicability of various psychological processes.

**Course Contents**

Following Experiments shall be performed by the students and they have to write a report on it and finally till end of course all reports will be compiled in practical copy, that's is mandatory requirement to appear in final term exam.

List of Experiments

- Exp 01: Studying Human Learning as a function of repeated Trials & Errors (Psychomotor Learning).
- Exp 02: Studying bilateral transfer of learning from preferred hand to non-preferred hand. (Perceptual motor learning)
- Exp 03: Mapping the color zone of the retina of human eye.
- Exp 04: Studying Serial Position Effect in verbal Learning as a function of repeated trials.
- Exp 05: Studying Proactive learning as a function of interpolated activity in verbal learning.
- Exp 06: Studying fatigue effect as a function of distributed vs. massed practice
- Exp 07: Demonstration of Weber's law by employing the method of Bisectionation and method of average error
- Exp 08: Determination of Point of Subjective Equality (P.S.E) as function of arrow head angularity employing the method of minimal changes.
- Exp 09: Determination of 2- point Touch Threshold (Lateral/Longitudinal) as a function of orientation of aesthesiometer on the medial surface of the fore arm employing the method of constant stimuli.
- Exp 10: Studying the Testimony of Fidelity.

**Following Experiments will be covered theoretically .Orientation will be given,but no report writing will be required.**

- Exp 01: Studying Retroactive inhibition as a function of interpolated activity.
- Exp 02: To demonstrate functional properties of smell and taste using a series of observation.
- Exp 03: Studying the selectivity of perception as a function of individual differences.

### **Learning Outcomes**

By the end of this course the students will be able to learn application and demonstration of various psychological process

### **Teaching-learning Strategies**

Use of multimedia/slides

Assignments

Group discussions

### **Recommended Books**

American Psychological Association (APA). (2020). *Publication Manual of the American Psychological Association (7th ed.)*. Washington, DC: Author.

Ahmad, R., & Khanum, S. (2021). *Psychological research in Pakistan: Current status and future directions*. Journal of Behavioral Sciences, 31(1), 1-15.

International Union of Psychological Science (IUPsyS). (2022). *Promoting global psychology*:

Jani, B. K., (2006). *Experimental Psychology*. India: Pointer.

Mathew, Kantowitz, B.H., Roediger, H.L., & Elmes, D.G. (2009). *Experimental psychology*. (9<sup>th</sup> ed.). USA: Wadsworth Publishing.

Maclin, M.K., & Solso, R.L., (2008). *Experimental psychology: A Case approach*. (8<sup>th</sup> ed.). London: Pearson Education.

Martin, D.W. (2007). *Doing psychology experiments*. (7<sup>th</sup> ed.). Australia: Wadsworth Publishing.

Miller, F. G., Rosenstein, D. L., & DeRenzo, E. G. (2012). *Professional integrity in clinical research*. JAMA, 267(7), 925-928

Myer, A., & Hansen, C. H., (2011). *Experimental psychology*. (7<sup>th</sup> ed.). Australia: Wadsworth Publishing.

Myer, A., & Hansen, C. H., (2006). *Study guide for experimental psychology*. (2006). Australia: Wadsworth Publishing.

Postman, L., & Egan, J.P. (1967). *Experimental psychology: An introduction*. New York. Harper & Row Publishers.

Woodworth, R.S. & Scholsberg, H. (1950). *Experimental psychology*. (Rev.ed.). London: Methuew & Co. Ltd.