

PSY – 305: Psychological Test Construction-I (3 CHs)

Pre-requisite: None

Course Description:

The aim is to introduce the student to the basic theoretical psychometric concepts and use of psychological tests. Main course objectives include understanding of the basic principles of psychological measurement and the techniques of test construction, administration, and validation. The course will cover test rationale, construction, characteristics, and the use of evaluation are emphasized. Understand statistical concepts relevant to psychological test construction, including scales of measurement, reliability, validity, and understanding of test development and adaptation processes.

Course Objectives:

The course is designed to facilitate students to:

- Develop understanding about psychometric concepts, principles, and techniques of test construction, administration, and validation.

Course Learning Outcomes:

By the end of the course students will have knowledge base with regards to:

- Basic theoretical psychometric concepts relevant to the construction of psychological tests.
- Basic principles of psychological measurement and the techniques of test construction, administration, and validation.

Course Contents:

- Psychological tests and their utility
 - Introduction to psychological tests
 - The characteristics of good tests in psychology
 - Review of standardization and norms
 - Understanding and interpreting test scores
 - Historical, cultural and ethical considerations

- Essential Statistics
- Major Approaches to Test Construction
- Modern Psychological testing
 - Antecedents
 - Rise of modern psychological testing
 - Status and controversies
- The Science of test construction
 - Reliability and its types
 - Validity and its types
 - Item writing
 - Item analysis
 - Introduction to test norms and its types
- Test construction and adaptation
 - Adaptation process and cultural sensitivity

Textbook:

- Rust, J., and M. Konsiski. "Stillwell. (2021)." *Modern Psychometrics The Science of Psychological Assessment*.

Recommended Books:

- Urbina, S. (2004). *Essentials of psychological testing*. John Wiley & Sons.
- Kline, P. (1986). *Handbook of Test Construction. Introduction to Psychometrics design*. Routledge.
- Thorndike R. L., & Hagen, E. P. (1995). *Measurement and evaluation in psychology and education* (4th ed.). New York: Macmillan.
- Other articles/study materials for exercise purposes shall be shared later.