

**COURSE CURRICULUM
FOR
DOCTOR OF PHILOSOPHY (Ph. D.)
IN
PSYCHOLOGY**



**DEPARTMENT OF PSYCHOLOGY
RAJIV GANDHI UNIVERSITY
RONO HILLS, DOIMUKH
ARUNACHAL PRADESH-791112**

CONTENTS

Paper Code	Paper Title	Page No.
	Overview	3
	Course structure	3
PHDPSY-01	Research Methodology In Psychology.	4-5
PHDPSY-02	Statistics And Computer Application In Psychology	6-7

Overview

As per the university ordinance, the research scholars who are provisionally admitted for the Ph.D. programme will have to undergo Pre-Ph.D. course work. The course work is mandatory for all the fresh candidates and those engaged in regular employment. It is mandatory for the scholars to attend at least 80% of the allotted classes. Course curriculum of Ph.D. course work in physical education includes two papers comprising of Research Methods (PHDPSY-01) and Statistics & Computer application in Physical Education (PHDPSY-02) are compulsory paper. After completion of the course, there shall be written examination of the above two paper. For continuation evaluation the scholars are required to appear internal assessment/present seminar/review paper/assignment out of 25 marks and written examination out of 75 marks during the course work conducted by the department.

Doctor of Philosophy (Ph. D) in Psychology

COURSE STRUCTURE

Sl. No.	Paper code	Title of Paper	Max mark	Internal	External
1	PHDPSY-01	Research Methodology In Psychology.	100	25	75
2	PHDPSY-02	Statistics And Computer Application In Psychology	100	25	75

Programme Outcomes:

- 1. The student will be able to formulate and conduct scientific research.**
- 2. The student will be able to methodologically report scientific research finding with the provision for replication.**
- 3. The student will have understanding of the foundations and methods of parametric and non-parametric statistical analyses.**
- 4. Using statistical packages, the students will be able to test statistical assumptions, perform extended stoical analyses, and present research findings for univariate, bivariate and multivariate data.**

PAPER I: RESEARCH METHODOLOGY IN PSYCHOLOGY.

Objectives:

- 1. to provide understanding of the theoretical foundations, approaches and techniques along with sample selection for the conduction of scientific research.**
- 2. To provide the ground works for the theoretical foundations, empirical findings and procedural knowledge to report scientific research out comes.**

Course Outcome;

- 1. The student will be able to formulate and conduct scientific research.**
- 2. The student will be able to methodologically report scientific research finding with the provision for replication.**

Unit I:

- Scientific research – concept and characteristics of scientific research.
- Scientific approach to the study of behavior.
- Nature of Psychological research, planning of psychological research.
- Review of literature.
- Ethical issues in research.

Unit II:

- Types of research – Qualitative, Quantitative and mixed research.
- Types and methods of qualitative research – Action research, ethnography, phenomenology, grounded theory and case study research.

Unit III:

- Formulating research problem and hypothesis.
- Sampling and sampling techniques.
- Research design – concepts of variables, basic principles of experimental design.

Unit IV:

- Test Construction – development of tools, adaptation of Psychological tests.

- Procedure for data collection; administration of Psychological test; scoring and tabulation.
- Interpretation and conclusion.
- Referencing.
- Report writing.

References:

- Annastasi, A. (1976) Psychological testing, 4th edition. New York: McMillan Publishing Co.
- Break well, G.M., Smith, J.A., Wright, D.B. (2012). Research Method in Psychology. New Delhi: Sage Publications.
- Broota, K.D. (1992). Experimental Design. New Delhi; Wiley Eastern.
- Edward, A.L. (1955). Experimental design in Psychological Research. Holt McDougal; 4th edition
- Edward, A.L. (1957). Techniques of attitude scale construction. New York: Appleton-Century-Crofts.
- Freeman, F. S. (2008). Theory and Practice of psychological testing. Oxford & Ibh Publishing Co. Pvt Ltd
- Guilford, J.P. (1955). Psychometric methods, international Students Edition. New York, US: McGraw-Hill.
- Garrett H.E (2000) Statistics in Psychology and Education, Hyderabad: International Book Bureau.
- Kerlinger, F. N. (1983) Foundations of behavioural Research. New Delhi: Surjit Publications
- Kothari, C.R. (1995). Research Methodology; Method and Techniques. New Delhi; Wishwa Prakashan.
- Silverman, D. (2011). Interpreting Qualitative Data (Fourth Edition) New Delhi: SAGE Publication Ltd.
- Silverman, D. (2013). Doing Qualitative Research: A practical Handbook (fourth Edition). New Delhi: SAGE Publication Ltd.
- Singh. A.K. (1997). Tests, Measurements and Research Methods in Behavioral Science. N.D. Bharati Bhawan
- Todd, Z., Nerlich, B., Mckeown, S., & Clarke, D.D. (2104). Mixing methods in Psychology: The integration of qualitative and quantitative methods in theory and practice. London, UK: Psychology Press.

PAPER II: STATISTICS AND COMPUTER APPLICATION IN PSYCHOLOGY

Objectives:

- 1.To provide theoretical foundations and empirical bases for descriptive, differential and inferential statistics.**
- 2. To introduce the use of computer software's in the analyses and presentation of research data.**

Course Outcome:

- 3. The student will have understanding of the foundations and methods of parametric and non-parametric statistical analyses.**
- 4. Using statistical packages, the students will be able to test statistical assumptions, perform extended stoical analyses, and present research findings for univariate, bivariate and multivariate data.**

Unit I:

- Basics of statistics and parameter.
- Descriptive statistics and data transformation.
- Parametric statistics: concepts and application (correlation, regression, t-test, ANOVA, multivariate dependence and interdependence).

Unit II:

- Non-parametric statistics: Concepts and application.
- Chi-square, Mann-Whitney U test, Kruskal- Wallis one-way ANOVA, Friedman two-way ANOVA.

Unit III:

- Computer application: Psychometrics and data matrix, managing data, data entry, importing and exporting data, data screening.

Unit IV:

- Data analysis: Using any software like SPSS/ SYSTAT / STATISTICA R-software and software for qualitative research.

References:

Field, A. (2017) Discovering statistics using IBM SPSS Statistics, 5th edition. London: SAGE Publications.

Garret, H. E. (1975). Statistics in Psychology and Education, Vakils, Feffer and Sim Ltd. Bombay, Indian Print.

Guilford, J.P. (1956) Fundamental Statistics in Psychology and Education, (3rd ed.). New York, NY, US: McGraw-Hill.

Guilford, J.P. (1936) Psychometric Methods. New York. NY: McGraw-Hill.

Joseph, F. Hair & Barry, J. Babin et al. (2018) Multivariate data analysis, 8th Edition, Cengage Publisher

Kerlinger, F. N. (1983) Foundations of behavioural Research. New Delhi: Surjit Publications

Rajathi A.& Chandran, P. (2010). SPSS (Statistical package for social sciences) for you. Mjp Publishers

Seigal, S (1956) Non parametric Statistics. Sidney: McGraw-Hill.