



**Master of Arts (CBCS)**  
**M.A., Psychology: Semester: I**

Course Code	PA01CPSY51	Title of the Course	Research Methodology and Statistics-I
Total Credits of the Course	4+1	Hours per Week	5

Course Objectives:	<ol style="list-style-type: none"> <li>1. To acquaint the students with the key concepts, various application of research methodology as a science.</li> <li>2. To acquaint the students with contemporary conceptual a framework of research methodology.</li> <li>3. To prepare the blue-print for research and demonstrate an understanding of ethical issues in research.</li> <li>4. To acquire and demonstrate knowledge and skill necessary for research design.</li> </ol>
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Course Content		
Unit	Description	Weightage*(%)
1.	<p style="text-align: center;"><b>Meaning, Types and process of Research</b></p> <p>1.1 Meaning of research            1.2 Nature of research            1.3 Motivation in research            1.4 Objective of Research            1.5 Importance knowledge of research            1.6 Utility of research,-Criteria of good research            1.7 Research and scientific method            1.8 Research method Vs Research methodology            1.9 Types of research            1.10 Major steps of research process            1.11 Problems encountered by Researchers in India            1.12 Significance of research            1.13 Meaning of Variables            1.13 Types of Variables.</p>	25 %
2.	<p style="text-align: center;"><b>Research Problem and Hypothesis</b></p> <p>2.1 What is research problem            2.2 Characteristics of a good problem            2.3 Sources of research problem            2.4 Necessary considerations for selecting a research problem            2.5 Necessity of defining the Problem            2.6 Technique involved in defining problem            2.7 Meaning of hypothesis            2.8 Characteristics of hypothesis</p>	25 %





	2.9 Source of hypothesis 2.10 Types of hypothesis 2.11 Suggestions for hypothesis construction, and Importance of hypothesis.	
3.	<p style="text-align: center;"><b>Meaning and need and types of research designs</b></p> 3.1 Meaning of research design 3.2 Need for research design 3.3 Features of a good design 3.4 Important concepts relating to research design 3.5 Different research design 3.6 Basic principles of experimental designs 3.7 Important of experimental designs 3.8 Before-after without control design 3.9 After only with control design 3.10 Before-after with control design 3.11 Completely randomized design 3.12 Randomized block design 3.13 Latin square design 3.14 Factorial design.	25 %
4.	<p style="text-align: center;"><b>Statistics</b></p> 4.1 Meaning statistics 4.2 Types of statistics 4.3 Importance of statistics in social science research 4.4 Non-parametric test 4.5 X <sup>2</sup> Test (Chi square Test) 4.5.1 Equal Distribution ...4.5.2 Normal Distribution 4.5.3 2x2 Contingency Table ...4.5.4 The Chi Square test of independence in Contingency table.	25 %

Teaching-Learning Methodology	-Assignment method, -Group discussion, Lecture method, -Power point presentation, -Seminar. -	
<b>Evaluation Pattern</b>		
Sr.No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%





**Course Outcomes: Having completed this course, the learner will be able to**

1.	Acquire and demonstrate knowledge and skills relevant to the basic research methodology. To learn to differentiate about researches in different field.
2.	To obtain an understanding about formation of problem statement, hypothesis and classification of variables used in research.
3.	To achieve in depth comprehend of importance of various non parametric statistical techniques and methods of analysis in social science research.
4.	To develop insight related to research design.

**Suggested References:**

Sr. No.	References
1.	Broota, K. D. (1992), Experimental Design in Behavioral Research, N. Eastern.
2.	Dhila, B. D., Yagnik, L. R. and Chothani, K. B., (2004), Sanshodhan Padhattee, Vartanik Vignanma, (Research Method in Social Science), Akshar Publication, Ahmedabad.
3.	Jogsan, Y. A., (2016), Manovignanma Sanshodhan Padhdhati, (Research Methodology in Psychology), J K Print Shop, Rajkot.
4.	Karlinger, F. N., (1953) Research methods in the Behavioural Science, Dryden.
5.	Kapil, (2007), Element of statistics (In Social Science), Ravi mudralay, Agara
6.	Kothari, C. R., (2007), Research Methodology (Methods & Techniques), New Age International (P) Limited, Publishers.
7.	Kumar, (2016), Research Methodology (A step by step guide for Beginners) sage publications Mathura road, New Delhi.
8.	Parekh, S. C. (1998), Non Parametric Statistics, Champa Prakashan, Junagadh.
9.	Parekh, S. C. and Dixit, S. K. (1995), Statistical Testing in Psychological Research, Champa Prakashan, Junagadh.
10.	Rajmanikam, M. (2001), Statistical Methods in Psychological and Educational Research, Concept Publication Company, New Delhi.
11.	Sadhu, A. N. and Sing A., (1983), Research Methods in Social Science, Publication House, New Delhi.
12.	Mangal, S. K., (2016), Statistics in psychology and Education, (2 <sup>nd</sup> Edition), Mudrak publication, Patparganj, Delhi.
13.	Sendecor, G. W. and Cochran, W. G. (1968), Statistical Methods, Mohan Pramlani, Oxford & IBH Publishing Company.
14.	Trivedi, M. D. and Parekh, B. U. (1989), Statistics in Education, Granth Nirman Board, Ahmedabad.

On-line resources to be used if available as reference material

On-line Resources

<https://course.ccs.neu.edu/is4800sp12/resources/qualmethods.pdf>

<https://www.modares.ac.ir/uploads/Agr.Oth.Lib.17.pdf>

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