



Indraprastha College for Women University of Delhi

Work Plan for ODD SEMESTER – 2026

Course Name:	B.A. (Prog) Psychology
Paper Title:	Fundamentals of Inferential Statistics (Tutorial)
Unique Paper Code:	2112204701
Semester:	VII
Faculty:	Dr. Veena Gupta (Shared with Dr. Nidhi Malik)
Year:	IV

Work Plan			
Unit No.	Learning Objective	Lecture No.	Topics to be Covered
NA	Introduction to the Paper and Objectives	1	Introduction to the Paper and Objectives; Books; Pedagogy
		2	Revision of Fundamental Concepts
1	Introduction to Inferential Statistics	3	Revision & Practice from Unit 1
		4	Revision & Practice from Unit 1
		5	Revision & Practice from Unit 1
	Assessment	6	Test 1
2	Confidence Intervals	7	Revision & Practice from Unit 2
		8	Revision & Practice from Unit 2
		9	Revision & Practice from Unit 2
	Assessment	10	Test 2
3	ANOVA	11	Revision & Practice from Unit 3
		12	Revision & Practice from Unit 3
		13	Revision & Practice from Unit 3
	Assessment	14	Test 3
4	Chi-Square	15	Revision & Practice from Unit 4

Unit	Contents/Syllabus
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I	Introduction to Inferential Statistics; Properties of Random Sampling Distribution of the Mean; Hypothesis Testing – t test – Calculation with raw scores and Assumptions (Single mean, Independent samples, Dependent samples); One-tailed and Two-tailed tests; p-Value; Errors in hypothesis testing; Power of test
II	Confidence Intervals for Single Mean and Difference between two means (Calculation); Relation between Confidence Intervals and Hypothesis Testing; Advantages of Confidence Intervals
III	Hypothesis testing – One-way Analysis of Variance (ANOVA); Basis of ANOVA, Calculation with raw scores, Assumptions, Comparison of t and F; Conceptual understanding of Post Hoc Comparisons
IV	Chi-Square Test – Logic and Assumptions, Calculation for Goodness-of-fit, Test for Independence between two variables; Nonparametric Tests - Uses and Applications; Comparison with Parametric Tests
S. No.	Name of Authors/Books/Publishers
1.	Howell, D. C., (2013). <i>Statistical Methods for Psychology</i> . Wadsworth.
2.	King, B.M., Rosopa, P.J., & Minium, E.W. (2018). <i>Statistical Reasoning in the Behavioral Sciences</i> (7th Ed.). Wiley.
3.	Aron, A., Coups, E.J. & Aron, E.N. (2013). <i>Statistics for Psychology</i> . (6th Ed.) Pearson Education.
4.	Field, A. (2017). <i>Discovering Statistics Using IBM SPSS Statistics</i> . (5th Ed.), Sage Publications Ltd., London.
5.	Mangal, S.K. (2010). <i>Statistics in Psychology and Education</i> (2nd Ed.). PHI Learning.
6.	Veeraraghavan, V. & Shetgovekar, S. (2016). <i>Textbook of Parametric and Non- Parametric Statistics</i> . New Delhi: Sage.

Paper Components			
Credits	Lecture (L)	Tutorial (T)	Practical (P)
4	3	1	0
Assessment Scheme			
S.No.	Component	Marking Scheme	Total Marks
1	Internal Assessment		30
	• Assignment	12	
	• Class Test	12	
	• Attendance	6	

2.	Continuous Assessment (Tutorial)	NA	40
		20	
		15	
		5	
3.	Practical		
	- Continuous Assessment - End Term Written/Practical Exam - Viva		
4.	End Semester Examination		90