



Dr. D.Y. Patil Vidyapeeth's

Padmashree Dr. D. Y. Patil College of Nursing

Sant Tukaram Nagar, Pimpri, Pune – 411 018

Mail : info.nursing@dpu.edu.in, Website: nursing.dpu.edu.in

First Year M. Sc Nursing

Subject: - Statistics

Faculty: - Mrs. Vidya

Unit	Hours	Content	Lesson in Hours	Lesson Series
I	7(Theory) 4(Practical)	Introduction : · Concepts, types, significance, and scope of statistics meaning of data, parametric and no-parametric data	2	2
		· Sample, parameter	1	3
		· Type and levels of data and their measurement	1+1	4-5
		· Organization and presentation of data – Tabulation of data:	1+1	6-7
		· Frequency distribution	1+1	7-8
		Graphical and tabular presentations	1+1	9-10
II	4(Theory) 4(Practical)	Measures of central tendency : Mean, Median, mode	4+4	11-18
III	4(Theory) 5(Practical)	Measures of variability: • Range, Percentiles, average deviation,	2+3	19-23
		• quartile deviation, standard deviation	2+2	24-27
IV	4(Theory) 5(Practical)	Normal Distribution : Probability, Characteristics and application of normal	1+2	28-30
		Probability curve; sampling error.	1+1	31-32
		Cumulative distribution	1+1	33-34
		The cumulative frequency graph, Percentiles and percentile ranks	1+1	35-36
		The Cumulative percentage curve		
V	6(Theory)	Measures of relationship : · Correlation – need and meaning	2+1	37-39

	8(Practical)	· Rank order correlation	1+1	40-41
		· Scatter diagram method	1+2	42-43
		· Product moment correlation	1+2	44-45
		· Simple linear regression analysis and prediction.	1+2	46-47
VI	4(Theory) 2(Practical)	Designs and meaning: · Experimental designs	2+1	48-50
		· Comparison in pairs, randomized block design, Latin squares	2+1	51-53
VII	8(Theory) 10(Practical)	Significance of statistic and significance of difference between two statistics (testing hypothesis) · Non parametric test – Chi – square test, Sign median test, Mann-Whitney test.	4+5	54-61
		· Parametric test – 't' test, ANOVA, manova, ancova, Pearson's r	4+5	62-71
VIII	5(Theory) 5(Practical)	Use of statistical methods in psychology and education: · Scaling – Z Score, Z Scaling.	3	72-74
		· Standard Score and T score	3	75-77
		· Reliability of test Scores: test-retest method, parallel forms, spilt half method	4	78-81
IX	4(Theory) 6(Practical)	Application of statistics in health: · ratios, Rates, Trends	1	82
		· Vital health statistics – Birth and death rates.	2+3	83-87
		· Measures related to fertility, morbidity and mortality	1+3	88-92
X	3(Theory) 6(Practical)	Use of computers for data analysis Use of statistical package.	3+6	93-100