

Lecture plan

Class schedule for the Course-Statistical Methods (FEES-111)3 (2+1)

Theory

Sl. No.	Title of the theory classes	No. of Classes	Name of Instructor
1	Definition of Statistics, Basic term used in statistics	1	RAVI SHANKAR KUMAR
2	Concept of population, Census and Sample Surveys	1	RAVI SHANKAR KUMAR
3	Classification of data	1	RAVI SHANKAR KUMAR
4	Frequency and cumulative frequency table	1	RAVI SHANKAR KUMAR
5	Diagrammatic and graphical representation of data-Bar diagrams, pie-diagram, histogram, Frequency polygon, frequency curve, Ogives.	2	RAVI SHANKAR KUMAR
6	Important measure of central tendency- mean, median and mode. Relative merits and demerits of these measure	2	RAVI SHANKAR KUMAR
9	Important measures of dispersion, Range, Mean deviation, Variance and Standard Deviation. Relative merits and demerits of these measure	2	RAVI SHANKAR KUMAR
11	Coefficient of variation	1	RAVI SHANKAR KUMAR
12	Normal curve	1	RAVI SHANKAR KUMAR
13	Concept of Skewness and Kurtosis	1	RAVI SHANKAR KUMAR
14	Definitions of probability	1	RAVI SHANKAR KUMAR
15	Mutually exclusive and independent events	1	RAVI SHANKAR KUMAR
16	Conditional probability	1	RAVI SHANKAR KUMAR
17	Addition and Multiplication theorems	1	RAVI SHANKAR KUMAR
18	Random variable	1	RAVI SHANKAR KUMAR
19	Concept of sampling distribution	1	RAVI SHANKAR KUMAR
20	Standard error and central limit theorem	1	RAVI SHANKAR KUMAR
21	Introduction to statistical inference	1	RAVI SHANKAR KUMAR
22	General principles of testing of hypothesis, Types of error	1	RAVI SHANKAR KUMAR
23	Test of significance based on Normal, t, F and Chi-square distributions	3	RAVI SHANKAR KUMAR
26	Bivariate data, scatter diagram	1	RAVI SHANKAR KUMAR
27	Simple linear correlation, measure and properties	1	RAVI SHANKAR KUMAR
28	Linear regression, equation and fitting	1	RAVI SHANKAR KUMAR
29	Relation between correlation and regression, Length weight relationship in fishes. Application of linear regression in fisheries	2	RAVI SHANKAR KUMAR
31	Methodology for estimation of marine fish landings in India	1	RAVI SHANKAR KUMAR
32	Estimation of inland fish production in India and problems encountered	1	RAVI SHANKAR KUMAR
Total No. of Theory Classes		32	

Practical

Sl. No.	Topic to be taught	No. of Classes	Name of Instructor
1	Construction of questionnaires and schedules	2	RAVI SHANKAR KUMAR
2	Diagrams and frequency graphs	1	RAVI SHANKAR KUMAR
3	Calculation of mean, median, mode, range, mean deviation, variance, standard deviation, and coefficient of variance	3	RAVI SHANKAR KUMAR
4	Exercises on probability	1	RAVI SHANKAR KUMAR
5	Binomial and Poisson distribution	1	RAVI SHANKAR KUMAR
6	Area of Normal curve	1	RAVI SHANKAR KUMAR
7	Confidence interval for population mean	1	RAVI SHANKAR KUMAR
8	Test of hypothesis based on normal, t, F and Chi-square distributions	2	RAVI SHANKAR KUMAR
9	Computation of simple correlation and regression	2	RAVI SHANKAR KUMAR
10	Fitting of length- weight relationship in fishes	2	RAVI SHANKAR KUMAR
11	Data analysis using statistical software	1	RAVI SHANKAR KUMAR
Total No. of Practical classes		17	

Submitted by



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