Biostatistics Winter Training

NTHRYS provides Biostatistics Winter Training for interested candidates at its Hyderabad facility, Telangana. Please refer below for more details including Fee strctures, Eligibility, Protocols and Modules etc.,. Please do call / message / whatsapp for more details on 9014935156 [India - +91]

Eligibility: BSc / BTech / MSc / MTech / MPhil / PhD in any Life Sciences studying or completed students

Protocols / Techniques Covered

Topic (Depending upon the selected duration, topics will be allocated with specific number of hours)	Practicals	Tools

Biostatistics Introduction
  1. Types of Variables (Quantitative Vs Qualitative, Dependent Vs Independent)
  2. Study Designs (Observational, Experimental, Others)
  3. Tabulation & Graphs (Function, Rules & Basis of classification)
    1. Class Intervals & types
    2. Cumulative frequency distributions
    3. Bivariant Frequency Distribution
  4. Tabulation
    1. Parts of Table
    2. Original Vs Desired Table, Simple Vs Complex Table
    3. High Order Table
  5. Graphs
    1. Types of Graphs
      1. One Dimensional Graphs
      2. Two Dimensional
      3. Three Dimensional
      4. Picto Grams
      5. Cartograms
      6. Others
        1. Histogram
        2. Frequency Polygon(Direct)
        3. Ogive cumulative frequency curve
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6. Averages (Mean, Median, Mode)
   1. Mean (Arithmatic Mean, Weighted Arithmatic Mean etc.,)
   2. Median
    1. Cumulative Frequency
    2. Partition Values (Quartiles, Deciles, Percentiles)
   3. Mode
    1. Continuous frequency distribution
    2. Inspection Method, Analysis Method
   4. Connection (Symmetric Distribution, Skewed left, Skewed Right)
   5. Dispersion or Measure of Variation
   6. Range >> Quartile Deviation >>Average or Mean Deviation >> Standard Deviation
   7. Range >> Absolute & Relative
   8. Mean Deviation
    1. Mean Deviation from Arithmatic Mean
    2. Mean Deviation from Median
    3. Mean Deviation from Mode
   9. Standard Deviation
   10. Coefficient of Variation
   11. Combined Stadard Deviation
	Yes	Manual, Excel, SPSS (Optional)

7. Statistical Inference
8. Hypothesis Testing
   1. What is Hypothesis? Characteristics of Hypothesis.
   2. Types of Hypithesis
     1. Null Hypothesis
     2. Alternate Hypothesis
   3. Errors
     1. Type I Errors
     2. Type II Errors
   4. Level of Significance
   5. Two tailed and One Tailed Tests
   6. Testing the Hypothesis
   7. Critical Value & Decision Value
   8. Right Tailed & Left Tailed Tests
   9. Procedure for Hypothesis Testing
     1. Making a formal statement
     2. Selecting a Significance level
     3. Deciding the distribution to use
     4. Selecting a random sample and computing an appropriate vale
     5. Critical value
     6. Decision Value
     7. Sampling (Sampling Distribution)
     8. Student t Distribution
     9. Degree of Freedom
     10. Hypothesis testing for Mean & difference between Means
	Yes	Manual, Excel, SPSS (Optional)

9. Parametric & Nonparametric Tests
   1. Equivalent Tests
     1. Parametric Tests
       1. Independent Sample t test
       2. Paired Sample t test
       3. One Way Analysis of Variance (ANOVA)
       4. One way repeated measures Analysis of Variance
     2. Non Parametric Tests
       1. Mann-Whitney Test
       2. Wilcoxon signed Rank test
       3. Kruskal Wallis test
       4. Friedman's ANOVA
   2. Z and T Distribution
   3. Chi Square Test
   4. Conducting Chi-Square Analysis
   5. Independence of Attributes
   6. Range of R
   7. Spearman Rank Correlation
   8. Regression (Linear Regression equation)
	Yes	Manual, Excel, SPSS (optional)

Guidance will be given to the candidates (Durations above 10 days) who are interested to do a Minor Project (Optional - with no additional fee) related to the above module. Additional Certificate will be given to the same upon completion.

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Fee details in Rs per student					
Fee	5 Days	10 Days	20 days	1 Month	45 Days
Individual	13900	14600	18600	23000	27300
Group 2 - 4	13200	13200	17700	22000	26000
Group 5 - 7	13100	13100	17500	21700	25800
Group 8 - 10	12900	12900	17300	21500	25500