

4th Year (Statistics)

(Total Videos # 691)

Chapter # 01

Presentation of Data (41 Videos)

1.1 Exploring and Interpreting Data

1. Data
2. Exploring Data
3. Interpretation of Data
4. Introducing Parameters and Statistic
5. Basic Terminologies in Statistics
6. Accuracy of Measurements & Errors
7. Biasness Vs Unbiasness in Data
8. Types of Data(Continuous/Discrete)
9. Types of Data By Source

1.2 Frequency Distribution

10. Construction of Continuous Frequency Table
11. Problem on Construction of Continuous Frequency Table

1.3 Measurement Scales

12. scales
13. Ordinal Vs Nominal Data
14. Nominal Scale Vs Ordinal Scale
15. Interval Scale Vs Ratio Scale

1.4 Charts/Diagrams

16. Charts/Diagrams
17. Graphical Representation of Data-Horizontal/Vertical Bar Graph
18. Graphical Representation & Interpretation of Data-Multiple Bar Graph
19. Component Bar Chart
20. Percentage Component Bar Chart
21. Composite Bar Chart
22. Graphical Representation & Interpretation of Data- Pie Graph
23. Profit and Loss Chart
24. Pictograms

1.5 Graphs

25. Graphs
26. Interpretation of Data Through Graphs
27. Creating a Histogram
28. Problem on Constructing Histogram with Equal Intervals

29. Frequency Polygon
30. Cumulative Frequency Polygon
31. Graphical Representation & Interpretation of Data-Dot Graph
32. Representation and Interpretation of Data through Stem and Leaf
33. Graphical Representation & Interpretation of Data- Line Graph
34. Graph of Time Series
35. Difference Between Histogram and Histogram

1.6 Types of Frequency Curves

36. Frequency Curve
37. Common Shapes of Frequency Curves
38. Positively Skewed Frequency Curves
39. Negatively Skewed Frequency Curves
40. J-Shaped and Reverse J-Shaped Frequency Curves
41. Bimodal and Multi-modal Frequency Curves

Chapter # 02

Measures of Central tendency or Averages (49 Videos)

2.1 Measuring Averages

1. Average
2. Applications of Different Averages

2.2 Arithmetic Mean

3. Arithmetic Mean for Ungrouped Data
4. Problem on A.M of Ungrouped Data by Direct Method
5. Arithmetic Mean of Grouped Data by Direct Method
6. Problem on A.M for Grouped Data by Direct Method
7. Arithmetic Mean of Ungrouped Data using Short-cut Method
8. Problem on A.M for Ungrouped Data by Short formula Method
9. Arithmetic Mean of Grouped Data using Short-cut Method
10. Problem on A.M for Grouped Data by Short formula Method
11. Arithmetic Mean of Ungrouped Data using Coding Method
12. Problem on A.M for Ungrouped Data by Coding Method
13. A.M for Grouped Data by Coding Method
14. Problem on A.M for Grouped Data by Coding Method

2.3 Weighted/Combined Mean

15. Combined Arithmetic Mean
16. Applications of Weighted Averages
17. Introducing Weighted Average
18. Problem - Weighted Average for Ungrouped Data
19. Where to Use Arithmetic Mean
20. Properties of Arithmetic Mean
21. More on Properties of Arithmetic Mean

2.4 Median and Quantiles

22. Median for Ungrouped Data
23. Median of Grouped Data
24. Quartiles for Individual Observations
25. More on Quartiles for Individual Observations
26. How to Identify Outliers in Data Set
27. Problem-Quartiles for Individual Observations
28. Quartiles for a Frequency Distribution
29. Problem-Quartiles for a Frequency Distribution
30. Estimating Quartiles for Grouped Data using Graph
31. Quantiles from Discrete Data
32. More on Quantiles from Discrete Data
33. Quartiles From Grouped Data
34. More on Quartiles From Grouped Data
35. Deciles and Percentiles from Grouped Data
36. More on Deciles and Percentiles from Grouped Data
37. Problem - Deciles and Percentiles from Grouped Data
38. Problem - Deciles and Percentiles from Grouped Data
39. Graphic Location of Median and Partition Values

2.5 Mode

40. The Mode

2.6 Geometric and Harmonic Means

41. Geometric Mean of Ungrouped Data
42. Geometric Mean for Grouped Data
43. Harmonic Mean for Ungrouped Data
44. Harmonic Mean for Grouped Data
45. Where to Use Harmonic Mean
46. Where to Use Geometric Mean
47. Change in Origin and Scale
48. Empirical Relationship Between Mean, Median and Mode
49. Relationship Between Arithmetic, Geometric and Harmonic mean

Chapter # 03

Measures of Dispersion, Moments and Skew (78

Videos)

3.1 Dispersion

1. Applications of Dispersion
2. Dispersion

3.2 Measures of Dispersion

3. Range of Ungrouped Data

4. Problem on Calculation of Range for Raw or Ungrouped Data
5. Calculation of Range for Grouped Data
6. Problem 1: Calculation of Range for Grouped Data
7. Mean Deviation of Ungrouped Data
8. Problem-Mean Deviation for Ungrouped Data by Mean
9. Problem-Mean Deviation for Ungrouped Data by Median
10. Mean Deviation of Ungrouped Data from Mode
11. Problem-Mean Deviation for Ungrouped Data by Mode
12. Mean Deviation of Grouped Data from Mean
13. Problem-Mean Deviation for Grouped Data by Mean
14. Mean Deviation of Grouped Data from Median
15. Problem-Mean Deviation for Grouped Data by Median
16. Mean Deviation for Grouped Data by Mode
17. Problem-Mean Deviation for GroupedData by Mode
18. Interquartile Range for Data Set Represented in Different Ways
19. More on Interquartile Range for Data Set Represented in Different Ways
20. Making and Interpretation of Box-Whisker Plot
21. More on Making and Interpretation of Box-Whisker Plot
22. Problem- Making and Interpretation of Box-Whisker Plot
23. More on Prob -Making and Interpretation of Box-Whisker Plot
24. Consistency Test for Data
25. Situations Where We Use Range or Semi-IQR
26. Situations Where We Use Mean or Standard Deviation
27. Variance and Standard Deviation
28. Problem on Introduction to Variance & S.D
29. Variance and Standard Deviation of Ungrouped Data
30. Calculation of Variance by Direct Method
31. Variance and Standard Deviation of Ungrouped Data by Short Method
32. Variance and Standard Deviation of Ungrouped Data by Short-cut Method
33. Variance and Standard Deviation of Grouped Data
34. Variance and Standard Deviation of Grouped Data by Short Method
35. Variance and Standard Deviation of Grouped Data by Short-cut Method
36. Variance and Standard Deviation of Grouped Data by Coding Method
37. Effect of Change of Origin and Scale on S.D
38. Properties of Variance and Standard Deviation
39. More on Properties of Variance and Standard Deviation
40. More on Properties of Variance and Standard Deviation

3.3 Coefficient of Dispersion

41. Absolute and Relative Dispersion
42. Concept of Quartile Deviation
43. Problem-Concept of Quartile Deviation
44. Coefficient of Dispersion and Its Measure
45. Range Coefficient of Dispersion and its measure
46. Problem-Range Coefficient of Dispersion and its measure
47. Coefficient of Variation and its Measure
48. More on Problem-Coefficient of Dispersion and Its Measure
49. Quartile Coefficient of Relative Dispersion and its Measure

- 50. Quartile Coefficient of Relative Dispersion and its Measure
- 51. Mean Coefficient of Dispersion
- 52. Standardized Variable or Z-score
- 53. Problem - Standardized Variable or Z-score
- 54. Characteristics of Measures of Quartile Deviation
- 3.4 Combined Variance**
 - 55. Introduction to Combined Mean and Variance
 - 56. Prob-Introduction to Combined Variance
- 3.5 Trimmed and Winsorized Measures**
 - 57. Trimmed and Winsorized Measures
- 3.6 Moments**
 - 58. Introducing Moments
 - 59. Introducing Moments
 - 60. More on Introducing Moments
 - 61. Problem-Introducing Moments
 - 62. More on Problem-Introducing Moments
 - 63. Problem-Moments for group data
 - 64. Problem-Moments for group data
 - 65. Prob-Relation Between Mean Moments and Raw Moments
 - 66. More on Prob-Relation Between Mean Moments and Raw Moments
 - 67. Sheppards Corrections for Grouping Error
 - 68. Problem-Sheppards Corrections for Grouping Error
- 3.7 Skewed vs Unskewed Curves**
 - 69. Introducing Skewness
 - 70. Skewed Vs Unskewed Curves
 - 71. More on Skewed Vs Unskewed Curves
 - 72. Measures of Skewness
 - 73. More on Measures of Skewness
 - 74. Problem-Measures of Skewness
- 3.8 Kurtosis**
 - 75. Kurtosis and Its Measurements
 - 76. More on Kurtosis and Its Measurements
 - 77. Problem-Measures of Kurtosis
 - 78. More on Problem-Measures of Kurtosis

Chapter # 04

Index Numbers (33 Videos)

- 4.1 Introduction to Index Numbers**
 - 1. Index Number
 - 2. Applications of Index Numbers
 - 3. Death Rates and Birth Rates

4.2 Construct Price Index Numbers

- 4. Calculating Index Number By Fixed Base Method
- 5. More on Calculating Index Number By Fixed Base Method
- 6. Calculating Index Number By Chain Base Method

4.3 Unweighted and Weighted Price Index Num

- 7. Calculation of Unweighted Index Number by Simple Aggregative Method
- 8. Problem-Unweighted Index Number by Simple Aggregative Method
- 9. Calculation of Unweighted Index Number by Simple Average Method
- 10. Problem-Unweighted Index Number by Simple Average Method
- 11. Calculation of Unweighted Index Number by Average of Relative Method
- 12. Weighted Aggregative Price Index Numbers By Laspeyres Method
- 13. Weighted Aggregative Price Index Numbers By Paasches Method
- 14. Weighted Aggregative Price Index Numbers By Marshall Edgeworth Method
- 15. Weighted Aggregative Price Index Numbers By Fishers Method
- 16. Weighted Aggregative Price Index Numbers By Walsh Method
- 17. Problem-Weighted Aggregative Price Index Numbers
- 18. More on Problem-Weighted Aggregative Price Index Numbers
- 19. Weighted Average of Relatives Price Index Numbers

4.4 Quantity Index Numbers

- 20. Quantity Index Number
- 21. Problem - Simple Aggregative Quantity Index Number
- 22. Problem - Weighted Aggregative Quantity Index Number
- 23. Problem - Simple Average of Relatives Quantity Index Number
- 24. Problem - Weighted Average of Relatives Quantity Index Number\

4.5 Value Index

- 25. Value Index Number

4.6 Theoretical Tests of Index Number

- 26. Tests of Index Number
- 27. More on Tests of Index Number
- 28. Problem - Time Reversal Test
- 29. Problem - Factor Reversal Test;

4.7 Consumer Price Index Numbers

- 30. Consumer Price Index Numbers
- 31. Consumer Price Vs Wholesale Price Index Numbers
- 32. Problem- Consumer Price Vs Wholesale Price Index Numbers
- 33. Sensitive Price Index (SPI)

Chapter # 05

Probability (64 Videos)

5.1 Set Theory

1. Sets
2. Types of Set
3. Subsets
4. Basic Operations of Sets
5. Venn Diagram

5.2 Algebra of Sets

6. Commutative Law of Sets
7. Associative Laws
8. Idempotent Laws of Sets
9. Identity Laws of Sets
10. Complementation Law
11. Law of Double Complementation
12. Law of Empty Set and Universal Set
13. Distributive Laws

5.3 Counting Techniques

14. A Basic Counting Procedure
15. Introducing Factorials
16. Problem- Introducing Factorials
17. Introducing Permutations
18. Problem- Introducing Permutations (Distinct Objects)
19. Permutations When the Objects are Not Distinct
20. Introduction to Combinations
21. Problem1-Introducing Combinations

5.4 Basic Probability

22. Introducing Probability
23. Random Experiment
24. Sample Space
25. Basic Terminologies used in Probability
26. Types of Events
27. Probability for Multiple Event
28. Problem - Probability for Multiple Event
29. Mutually Vs Non-Mutually Exclusive Events
30. Problem - Mutually Vs Non-Mutually Exclusive Events
31. Equally Likely Vs Exhaustive Events
32. Conditional Probability
33. Properties of Probabilities

5.5 Addition Law for Probability

34. Addition Law of Probability
35. More on Applications of Addition of Probabilities
36. Addition Laws of Probability
37. Problem-Addition Laws of Probability
38. Addition of Probabilities of Overlapping Events by Venn Diagram
39. Problem-Addition of Probabilities of Overlapping Events by Venn Diagram
40. Addition of Probabilities of Disjoint Events by Venn Diagram
41. Addition of Probabilities of Subset Events

5.6 Multiplication Law for Probability

- 42. Multiplication Law of Probability
- 43. Application of Multiplication Laws of Probabilities
- 44. More on Application of Multiplication Laws of Probabilities
- 45. Multiplication of Probabilities of Dependent Events
- 46. Problem- Multiplication of Probabilities of Dependent Events
- 47. Multiplication of Probabilities of Independent Events
- 48. Problem-Multiplication of Probabilities of Independent Events
- 49. Intuition Behind Multiplication of Probabilities
- 50. Problem-Intuition Behind Multiplication of Probabilities
- 51. Problem - Probability of Repeated Independent Events

5.7 Conditional Probability

- 52. Conditional Probability
- 53. Application of Conditional Probability
- 54. Conditional Probability By Sample and Reduced Sample Space Approach
- 55. Prob-Conditional Probability By Sample and Reduced Sample Space Approach
- 56. Dependent Vs Independent Events
- 57. Independence of Two Events
- 58. Problem - Independence of Two Events
- 59. Independence of Several Events
- 60. Independence and Conditional Probability

5.8 Bayes Theorem

- 61. Bayes Theorem
- 62. Problem - Bayes Theorem
- 63. Bayes Theorem and the Law of Total Probability for Random Variables
- 64. Prior and Posterior Probabilities

Chapter # 06

Random Variables (79 Videos)

6.1 Random Variables

- 1. Random Variables
- 2. Discrete Vs Continuous Random Variable

6.2 The Cumulative Distribution Function

- 3. The Cumulative Distribution Function
- 4. Determining Probabilities From Distribution Function
- 5. Problem - The Cumulative Distribution Function
Cumulative Distribution and Probability Mass Function

6.3 Discrete Probability Distribution

6. Introducing Probability Distribution
7. Probability Mass Function
8. Probability Distribution of Discrete Random Variable
9. More on Probability Distribution of Discrete Random Variable
10. Problem - Probability Distribution of Discrete Random Variable
11. Cumulative Distribution and Probability Mass Function

6.4 Continuous Probability Distribution

12. The Probability Density Function
13. More on Probability Density Function
14. Problem - The Probability Density Function
15. The PDF of Continuous Distribution
16. More on The PDF of Continuous Distribution
17. Finding Area Under the Curve with Trapezoidal Rule
18. More on Finding Area Under the Curve with Trapezoidal Rule
19. Probability Density Function using Integration Method
20. Problem-Probability Density Function using Integration Method
21. More on Problem-Probability Density Function using Integration Method
22. Cumulative Distribution and Probability Density Function
23. Problem-Cumulative Distribution and Probability Density Function

6.5 Joint Distribution

24. Joint Probability Distribution of Two Random Variables
25. Discrete Joint Distributions
26. More on Discrete Joint Distributions
27. Problem - Discrete Joint Distributions
28. Continuous Joint Distribution of Two Random Variables
29. Problem-Continuous Joint Distribution of Two Random Variables
30. Marginal Probability
31. Marginal Probability Density Function of Two Continuous Random Variables
32. Independence of Joint Distribution of Two Discrete Variables
33. Independence of Joint Random Variables of Two Continuous Variables
34. Discrete Conditional Distributions
35. Problem - Discrete Conditional Distributions
36. More on Problem - Discrete Conditional Distributions
37. Continuous Conditional Distributions
38. Problem - Continuous Conditional Distributions

6.6 Mathematical Expectation

39. Expectation
40. Applications of Expectation
41. The Expected Value of Random Variable
42. Use of Expected Value in Decision Making
43. More on Use of Expected Value in Decision Making
44. How Probability Helps Expectations
45. The Expectation of a Discrete Distribution
46. Problem1-The Expectation of a Discrete Distribution
47. Problem2-The Expectation of a Discrete Distribution

- 48. More on Problem2-The Expectation of a Discrete Distribution
- 49. The Expectation of a Function
- 50. Laws of Expectation
- 51. More on Laws of Expectation
- 52. Addition and Subtraction Laws of Expectation
- 53. Multiplication Law of Expectation
- 54. Problem-Laws of Expectation

6.7 properties of Variances

- 55. Properties of Variance1
- 56. Properties of Variance2
- 57. Properties of Variance3
- 58. Properties of Variance4
- 59. Problem1 - Properties of Variance
- 60. Problem2 - Properties of Variance

6.8 Sum or Differences of Variances of Random Variables

- 61. Variance of the Sum or Difference of Two Random Variables1
- 62. Variance of the Sum or Difference of Two Random Variables2
- 63. Variance of the Sum or Difference of Two Random Variables3
- 64. Variance of the Sum or Difference of Two Random Variables4
- 65. Problem-Variance of the Sum or Difference of Two Random Variables

6.9 The Median and Mode of Random Variables

- 66. The Median and Mode of Discrete Distribution
- 67. The Median of Continuous Distribution
- 68. The Mode of Continuous Distribution

6.10 Chebyshev's Inequality

- 69. Chebyshev's Inequality

6.11 ovariance of Random Variables

- 70. Correlation
- 71. Covariance of Two Random Variables
- 72. Problem - Covariance of Two Random Variables

6.12 Conditional Expectation

- 73. Conditional Expectation
- 74. Utility Functions

6.13 Moment Generating Function

- 75. Moment Generating Function
- 76. Moment Generating Function-Formula Extension
- 77. Properties of the Moment Generating Function
- 78. Problem - Moment Generating Function

Chapter # 07

Discrete probability Distributions (72 Videos)

7.1 The Bernoulli and Binomial Distributions

1. The Bernoulli Distribution
2. Properties of Bernoulli Distribution
3. The Binomial Distribution
4. More on Binomial Distribution
5. Visualizing Binomial Distribution
6. Probability of Binomial Distribution - Example
7. Probability of Binomial Distribution - Example
8. Binomial Distribution for All Possible Value of Random Variable
9. More on Binomial Distribution for All Possible Value of Random Variab
10. Problem- Probability of Binomial Distribution
11. Mean of Binomial Distribution
12. Variance of Binomial Distribution
13. Problem-Mean and Variance of Binomial Distribution
14. Moments About Origin of Binomial Distribution
15. Second Moment About Origin of Binomial Distribution
16. Third Moment About Origin of Binomial Distribution
17. Fourth Moment About Origin of Binomial Distribution
18. Moment About Mean of Binomial Distribution
19. More on Moment About Mean of Binomial Distribution
20. Problem-Moments About Mean of Binomial Distribution
21. Moment Co-efficient of Skewness and Kurtosis
22. Problem-Moment Co-efficient of Skewness and Kurtosis of Binomial Dist
23. Binomial Frequency Distribution
24. Recurrence Formula of the Binomial Distribution
25. Problem-Recurrence Formula of the Binomial Distribution
26. More on Problem-Recurrence Formula of the Binomial Distribution
27. Fitting a Binomial Distribution to Observed Data
28. Moment Generating Function of the Binomial Distribution\

7.2 The Hypergeometric Distribution

29. Introducing Hypergeometric Distribution
30. More on Hypergeometric Distribution
31. Mean of Hypergeometric Distribution
32. Problem-Mean of Hypergeometric Distribution
33. Variance of Hypergeometric Distribution
34. Problem-Variance of Hypergeometric Distribution
35. Hypergeometric Distribution in Case of Large N

7.3 The poisson Distribution

36. Introducing Poisson Distribution
37. Introducing Poisson Distribution
38. Poisson Probability Function
39. More on Poisson Probability Function
40. Problem- Probability of Poisson Distribution

- 41. Poisson Frequency Distribution
- 42. More on Poisson Frequency Distribution
- 43. Properties of Poisson Distribution
- 44. Variance of Poisson Distribution
- 45. Problem-Mean and Variance of Poisson Distribution
- 46. Moments About Origin of Poisson Distribution
- 47. Second Moment About Origin of Poisson Distribution
- 48. Third Moment About Origin of Poisson Distribution
- 49. Fourth Moment About Origin of Poisson Distribution
- 50. Moments About Mean of Poisson Distribution
- 51. More on Moments About Mean of Poisson Distribution
- 52. Moment Coefficient of Skewness and Kurtosis of Poisson Distribution
- 53. Fitting a Poisson Distribution to Observed Data
- 54. Poisson Process
- 55. Moment Generating Function of the Poisson Distribution
- 56. Problem-Recurrence Formula of Poisson Distribution
- 57. Moment Generating Function of the Poisson Distribution

7.4 The Negative Binomial Distribution

- 58. Negative Binomial Distribution
- 59. More on Negative Binomial Distribution
- 60. Properties of Negative Binomial Distribution
- 61. Problem-Mean and Variance of Negative Binomial Distribution

7.5 The Geometric Distribution

- 62. Introducing Geometric Distributions
- 63. Introducing Geometric Distribution
- 64. More on Introducing Geometric Distribution
- 65. Mean of Geometric Distribution
- 66. Variance of Geometric Distribution
- 67. Problem-Mean and Variance of Geometric Distribution
- 68. Moment Generating Function of Geometric Distribution
- 69. Mean using Moment Generating Function of Geometric Distribution

7.6 The Multinomial Distribution

- 70. The Multinomial Distribution
- 71. More on The Multinomial Distribution
- 72. Problem - The Multinomial Distribution

Chapter # 08

Continuous probability Distributions (47 Videos)

8.1 Uniform Distribution

- 1. An Introduction to the Continuous Uniform Distribution
- 2. Problem-An Introduction to the Continuous Uniform Distribution

3. Mean of Continuous Uniform Distribution
4. Variance of Continuous Uniform Distribution
5. Problem- Mean and Variance of Continuous Uniform Distribution
6. Moment Generating Function of Uniform Distribution

8.2 Exponential Distribution

7. Introducing Exponential Distributions
8. Dealing with Exponential Distributions
9. Cumulative Distribution Function of Exponential Distribution
10. Problem-Cumulative Distribution Function of Exponential Distribution
11. Problem - Dealing with Exponential Distributions
12. More on Problem - Dealing with Exponential Distributions
13. Mean of Exponential Distribution
14. Problem-Mean of Exponential Distribution
15. Variance of Exponential Distribution
16. Moment Generating Function of Exponential Distribution

8.3 Normal Distribution

17. Introducing Normal Distribution
18. Cumulative Distribution Function of Normal Distribution
19. Standard Normal Distribution
20. Proper Probability Density Function
21. Mean of Normal Distribution
22. Variance of Normal Distribution
23. Problem-Mean and Variance of Normal Distribution
24. Median of Normal Distribution
25. Mode of Normal Distribution
26. Empirical Rule for Normal Distribution
27. Problem-Empirical Rule for Normal Distribution
28. Sum of Two Independent Normal Variables
29. Point of Inflexion of Normal Distribution
30. Normal Curve
31. Mean Deviation of Normal Distribution
32. Distribution of Linear Transformation of Normal Random Variable
33. Quartile Deviation of a Normal Distribution
34. Moments about Mean of Normal Distribution
35. Moment Generating Function of Normal Distribution
36. Problem-Moment Generating Function of Normal Distribution
37. Characteristics of the Normal Probability Distribution
38. Areas under the Normal Curve
39. Tabulated Areas of Normal Distribution
40. More on Tabulated Areas of Normal Distribution
41. Tabulated Areas of Normal Distribution for Centre Case
42. Inverse Use of Table of Areas Under Normal Curve
43. More on Inverse Use of Table of Areas Under Normal Curve1
44. Problem- Inverse Use of Table of Areas Under Normal Curve
45. Normal Approximation to the Binomial Distribution
46. Fitting a Normal Distribution

Chapter # 09

Method of Least Squares and Curve Fitting (07 Videos)

9.1 Approximating Line by MLS

1. Approximating Line by the Principle of Least Squares

9.2 Approximating Curves by MLS

2. Approximating Parabola by the Principle of Least Squares
3. Approximating Higher Degree Parabolic Curve
4. Fitting a Parabola by Using Change of Origin and Unit
5. Exponential Curves
6. Geometric Curves
7. Finding Plausible Values by Least Square Method

Chapter # 10

Simple Regression and Correlation (19 Videos)

10.1 Regression Analysis

1. Introduction to Regression
2. Deterministic and Probabilistic Relations or Models
3. Scatter Diagram
4. Approximating Line by the Principle of Least Squares
5. Approximating Parabola by the Principle of Least Squares
6. Standard Deviation of Regression or Standard Error of Estimate
7. Coefficient of Determination

10.2 Correlation

8. Correlation
9. Pearson Product Moment Correlation Coefficient
10. Problem1 - Correlation Coefficient of Random Variables
11. Problem2 - Correlation Coefficient of Random Variables
12. Problem-Correlation Coefficient for Sample Data
13. Affect of Change of Origin on Correlation Coefficient
14. More on Affect of Change of Origin on Correlation Coefficient
15. Affect of Change of Scale on Correlation Coefficient
16. Affect of Change of Scale and Origin on Correlation Coefficient

10.3 Rank Correlation

17. Rank Correlation

18. Rank Correlation for tied Ranks
19. Correlation Coefficient for Grouped Data

Chapter # 11

Multiple Regression and Correlation (08 Videos)

11.1 Multiple Regression

1. Introducing Multiple Regression
2. Problem-Introducing Multiple Regression
3. Multiple Regression in Deviation Form
4. Standard Error of Estimate
5. Coefficient of Multiple Determination and Multiple Correlation
6. Multiple Regression in terms of Linear Correlation Coefficients

11.2 partial Correlation

7. Partial Correlation
8. Relationship Between Multiple and Partial Correlation

Chapter # 12

Analysis of Time Series (26 Videos)

12.1 Time Series

1. Introducing Time Series
2. Applications of Time Series

12.2 Components of a Time Series

3. Secular Trend
4. Seasonal Variations
5. Cyclical Fluctuations
6. Irregular or random variations

12.3 Estimation of Secular Trend

7. Method of Free Hand Curve
8. Method of Semi-Averages
9. How to Calculate Moving Averages
10. Applications of Moving Averages
11. Problem - Application for Moving Averages

12. Estimating Secular Trend by Method of Least Squares
13. Fitting a Parabola or second Degree Curve
14. Detrending
15. Time Series Decomposition

12.4 Estimation of Seasonal Variations

16. The percentage of Annual Average Method
17. The Ratio to moving Average Method
18. The Ratio to Trend Method
19. More on The Ratio to Trend Method
20. Problem: The Ratio to Trend Method
21. More on Problem: The Ratio to Trend Method
22. The Link Relative Method
23. Deseasonalization of Data

12.5 Analysing the Cyclical and Irregular Va

24. Analysing the Cyclical Variations
25. Analysing the Irregular Variations

12.6 Forecasting

26. Forecasting

Chapter # 13

Sampling and Sampling Distribution (57 Videos)

13.1 Introducing Basic Concepts

1. Applications of Sampling
2. Central Limit Theorem
3. Population Vs Sample
4. Population and Its Kind
5. Sample and Sampling
6. Sampling Units and Frame
7. Sampling Versus Census
8. Sampling and Non-Sampling Errors
9. Precision and accuracy
10. Limitations of Sampling
11. Sampling Design and Its Types
12. A Representative Vs Biased Sample

13.2 probability and Non-probability Sampling

13. Probability and Non-probability Sampling
14. Simple Random Sampling
15. Random Digits
16. Systematic Sampling
17. Stratified Sampling

- 18. Allocation of Sample Sizes in Stratified Sampling
- 19. Cluster Sampling
- 20. Introducing Purposive and Quota Sampling

13.3 Errors in Sampling

- 21. True Value, Accuracy, Precision and Error
- 22. Prob-True Value, Accuracy, Precision and Error
- 23. Prob-Simple Random Sampling and Sampling Distribution

13.4 Sampling and Sampling Distribution

- 24. Sampling
- 25. Sampling Distribution
- 26. Sampling With Replacement and Without Replacement
- 27. Sampling Distribution and Standard Error of Statistic
- 28. Prob-Sampling Distribution and Standard Error of Statistic
- 29. Prob-Sampling Distribution From General Populations

13.5 Sampling Distribution of Sample Means

- 30. Sampling Distribution of Mean
- 31. More on Sampling Distribution of Mean
- 32. Graphical Representation of Sampling Distribution of Means
- 33. Standard Deviation of the Sampling Distribution With Replacement
- 34. More on Standard Deviation of the Sampling Distribution With Replacement
- 35. Problem- Standard Deviation of Sampling Distribution With Replacement
- 36. Standard Deviation of Sampling Distribution Without Replacement
- 37. More on Standard Deviation of Sampling Distribution Without Replacement

13.6 Sampling Distribution of Difference of Means

- 38. Sampling Distribution of Difference of Means
- 39. Variance of Difference of Random Variables
- 40. More on Sampling Distribution of Difference of Means
- 41. More on Difference of Variance of Random Variables
- 42. Problem-Sampling Distribution of Difference of Means
- 43. More on Problem-Sampling Distribution of Difference of Means
- 44. Further to Problem-Sampling Distribution of Difference of Means
- 45. Further to Problem-Sampling Distribution of Difference of Means

13.7 Sampling Distribution of Sample proportions

- 46. Sampling Distribution of Proportions
- 47. Problem- Sampling Distribution of Proportions
- 48. More on Problem- Sampling Distribution of Proportions
- 49. More on Problem- Sampling Distribution of Proportions
- 50. Sampling Distribution of Difference between Proportions

13.8 Sampling Distribution of Variances

- 51. Sampling Distribution of Variances
- 52. More on Sampling Distribution of Variances
- 53. Further stuff on Sampling Distribution of Variances

13.9 The Central Limit Theorem

- 54. The Central Limit Theorem
- 55. Problem - The Central Limit Theorem
- 56. The Correction for Continuity
- 57. The Law of Large Numbers

Chapter # 14

Statistical Inference: Estimation (22 Videos)

14.1 Introducing Statistical Inference

- 1. Introducing Statistical Inference
- 2. Estimates and Estimators
- 3. Statistic and Estimator
- 4. Introducing Point Estimation
- 5. Prob-Introducing Point Estimation
- 6. Point Estimation
- 7. Interval Estimation

14.2 Maximum Likelihood Estimator

- 8. Maximum Likelihood Estimators
- 9. Problem - Method of Maximum Likelihood for Point Estimation

14.3 Method of Moments

- 10. Method of Moments for Point Estimation

14.4 Unbiased Estimator

- 11. Introducing Unbiased Estimator
- 12. Unbiased Estimation of the Variance

14.5 Confidence Interval

- 13. Introducing Confidence Interval
- 14. Confidence Interval for Means with Large Samples
- 15. Confidence Interval for μ when σ^2 is Unknown
- 16. Confidence Interval for Differences between Means with Large Sample s
- 17. Confidence Interval for Proportions
- 18. Confidence Intervals for Difference Between Proportions
- 19. One sided Confidence interval
- 20. Sample size for estimating population mean
- 21. Sample size for estimating population proportion
- 22. Confidence Interval for Paired Observations

Chapter # 15

Statistical Inference:Hypothesis Testing (28 Videos)

15.1 Basic Concepts

1. Testing hypothesis
2. Formulation of Null and Alternative Hypothesis
3. Prob-Formulation of Null and Alternative Hypothesis
4. Simple and Composite Hypothesis
5. Test-Statistics
6. Acceptance and Rejection Regions
7. Type 1 and 2 Errors
8. The Power of a Test
9. The Significance Level
10. One Tailed and Two Tailed Test
11. General Procedure for Testing Hypothesis
12. The Relationship between Level of Significance and Sample Size
13. Left Tailed and Right Tailed Tests
14. Prob-Left Tailed and Right Tailed Tests
15. Deciding Upon an Appropriate Test
16. Level of Significance and Level of Confidence

15.2 Test of Hypothesis about population Mean

17. Testing Hypothesis about Mean of a Normal population when Sigma is kn
18. Testing Hypothesis about Mean of a Normal population when Sigma is Un

15.3 Test of Hypothesis About population pro

19. Test Based on Normal Approximation
20. Example- Test Based on Normal Approximation

15.4 Test of Hypothesis About the Difference

21. Test of Hypothesis About the Difference Between Two Population Propor
22. Prob-Test of Hypothesis About the Difference Between Two Population P
23. Testing That Difference Between Two Population Proportions Equals Som
24. Prob-Testing That Difference Between Two Population Proportions Equal

15.5 Testing Hypothesis about Standard Devia

25. Testing Hypothesis About Standard Deviation
26. Problem-Testing Hypothesis About Standard Deviation
27. Relationship Between Confidence Interval and Tests of Hypothesis
28. Tests Based on Binomial Distribution

Chapter # 16

The Student's t Distribution (10 Videos)

16.1 The t Distribution

1. The Students t Distribution
2. Problem - The Students t Distribution
3. Confidence Interval for Mean with Small Sample
4. Problem-Confidence Interval Estimates of Mean From Small Samples
5. Hypothesis Testing About the Mean with Unknown Variance
6. Confidence Interval for differences between Means for small samples w
7. Comparing the Mean of Two Normal Populations
8. Comparing the Means of Two Normal Distributions with unequal Unknown

16.2 paired t-test

9. Confidence Interval for Paired Observations
10. The Paired t Test

Chapter # 17

The Chi-Square Distribution (16 Videos)

17.1 The Chi-Square Distribution

1. Categorical data
2. Introducing Chi-Square Distribution
3. Prob-Confidence Interval- Estimate of Variance of Normal Population
4. More on Prob-Confidence Interval- Estimate of Variance of Normal Popu
5. Confidence Interval Estimate of Variance From Several Sample Variances
6. Testing Hypothesis About Variance of Normal Population
7. Bartlett's Test
8. Testing Hypothesis About Ps of Multinomial Distribution

17.2 Goodness of Fit Test

9. Pearson's Chi Square Test of Goodness of Fit

17.3 Contingency Tables

10. Contingency Tables
11. Testing Hypothesis of Independence between Attributes
12. Yates Correction for Continuity
13. More on Yates Correction for Continuity

17.4 Tests of Homogeneity

14. What is Homogeneity
15. Testing Hypothesis About Equality of Several Proportions
16. The Chi-Square Test as a Test of Homogeneity

Chapter # 18

The F Distribution (03 Videos)

18.1 The F Distribution

1. Introducing F Distribution
2. Confidence Interval for the Variance Ratio
3. Testing Hypothesis about Equality of Two Variances

Chapter # 19

Analysis of Variance(ANOVA) (09 Videos)

19.1 Analysis of Variance

1. Introducing Analysis of Variance

19.2 One Way ANOVA

2. One Way Analysis of Variance
3. More on One Way Analysis of Variance

19.3 Two Way ANOVA

4. Two Way Analysis of Variance Without Interaction
5. More on Two Way Analysis of Variance Without Interaction
6. Two Way Analysis of Variance With Interaction
7. More on Two Way Analysis of Variance With Interaction

19.4 Multiple Comparison Tests

8. The Least Significant Difference Test
9. Duncans Multiple Range Test

Chapter # 20

Experimental Designs (09 Videos)

20.1 Experimental Designs

1. Introduction to Experimental Design
2. Basic Principles of Experimental Designs

20.2 Completely Randomized Design

3. The Completely Randomized Design
4. Problem: The Completely Randomized Design

20.3 The randomized Complete Block Design

5. The Randomized Complete Block Design
6. Problem: The Randomized Complete Block Design
7. Efficiency of RCB Design Relative to CR Design

20.4 The Latin Square Design

8. The Latin Square Design
9. Problem: The Latin Square Design

Chapter # 21

Statistical Inference in Regression and (14 Videos)

21.1 Confidence interval in Regression

1. Confidence Interval Estimate of Population Regression Coefficient
2. Confidence Interval Estimate of Alpha, the Intercept of Regression Line
3. Confidence Interval Estimate of Mean Value for a Given Value of x
4. Prediction Interval of an Individual y Value for a Given Value of x

21.2 Hypothesis Testing in the Regression

5. Testing Hypothesis about Beta, the Population Regression Coefficient
6. Testing Hypothesis About Alpha, the Intercept of Population Regression
7. Testing Hypothesis About Equality of Regression Coefficient of Two Regression Lines
8. Testing Hypothesis About the Linearity of Regression

21.3 Hypothesis Testing in Correlation

9. Hypothesis Testing About Correlation Coefficient
10. More on Hypothesis Testing About Correlation Coefficient
11. Testing Hypothesis About the Equality of Two Correlations
12. Testing Hypothesis About the Equality of Several Correlations
13. Testing Hypothesis About Partial Correlation
14. Testing Hypothesis that a Multiple Correlation Coefficient is Zero

14th Year (Advance Accounting)

(Total Videos # 232)

Chapter # 01

Joint Stock Company (21 Videos)

1.1 Introduction to Company Accounts

1. Company and its kinds on the basis of Article of Association
2. Kinds of Companies on the basis of Legal Form
3. Kinds of Companies on the basis of Composition
4. Characteristics of Joint Stock Company
5. More on Characteristics of Joint Stock Company

1.2 Important Legal Documents

6. Memorandum, Articles of Association and Prospectus

1.3 Classes of Share Capital

7. Share Capital of a Company
8. Categories of Share Capital
9. More on Categories of Share Capital

1.4 Issuance of Shares

10. Issuance of Shares
11. Accounting for Issuance of Shares
12. Accounting for Issue of Shares in case of Over-Subscription
13. Accounting for Issue of Shares in case of Under-Subscription
14. Subsequent Issue of Shares
15. Issue of Shares at Premium

16. Problem: Issue of Shares at Premium
17. More on Problem: Issue of Shares at Premium
18. Problem: Issue of Shares at Discount
19. More on Problem: Issue of Shares at Discount
20. Consideration for Issue of Shares
21. Consideration for Issue of Shares - Running Business

Chapter # 02

Issuance of Bonus and Right Shares (15 Videos)

2.1 Bonus Shares

1. Issuance of Bonus Shares
2. Maximum amount available for Capitalization (Bonus Issue)
3. Illustration 1: Maximum amount available for Capitalization
4. Advantages and Disadvantages of Bonus Shares

2.2 Accounting Treatment of Bonus Issue

5. Problem: Journal Entries for Issuance of Bonus Shares
6. Problem: Balance Sheet after Issuance of Bonus Shares
7. Problem: Issuance of shares for consideration & issuance of bonus sha
More on Problem: Issuance of shares for consideration & issuance of b

2.3 Right Issue

8. Right Shares
9. Theoretical Ex-Right Price and Value of a Right Share

2.4 Accounting Treatment of Right Issue

10. Journal Entries for Issuance of Right Shares
11. Right & Bonus Share Issuance effects in Balance Sheet
12. More on Right & Bonus Share Issuance effects in Balance Sheet
13. Problem: Right share's Effect on Net wealth of a shareholder
14. More on Problem: Right share's Effect on Net wealth of a shareholder

Chapter # 03

Debentures, Bonds and TFCs (28 Videos)

3.1 Introduction of Debentures, Bonds and T

1. Accounting for Debenture
2. Bond and Types of Bond
- 3.2 Issuance of Debentures**
 3. Kinds of Debentures
 4. Difference between Debenture holder and Shareholder
 5. Preference of Debenture Issue over Share Issue
 6. Problem 1: Debentures issued for Cash
 7. More on Problem 1: Debentures issued for Cash
 8. Problem 2: Debentures issued in Consideration other than Cash
 9. More on Problem 2: Debentures issued in Consideration other than Cash
 10. Issue of Debentures as Collateral Security
- 3.3 Issuance and Redemption of Debentures**
 11. Redemption of Debentures
 12. Different Cases of Issuance and Redemption of Debentures
 13. Issuance of Debentures at Premium, Redeemable at Par
 14. Issuance of Debentures at Par, Redeemable at Premium
 15. Issuance of Debentures at Discount and Redeemable at Premium
 16. More on Issuance of Debentures at Discount and Redeemable at Premium
- 3.4 Redemption of Debentures**
 17. Time and Sources of Redemption of Debenture
 18. Problem: Redemption of Debenture Out of profit & capital
 19. More on Problem: Redemption of Debenture Out of profit & capital
 20. Methods of Redemption of Debentures
 21. Sinking Fund and Non-Cumulated Sinking Fund
 22. Debenture Sinking Fund Account
 23. Accounting Entries: Redemption of Debentures by Sinking Fund
 24. Redemption of Debentures-Insurance Policy Account
 25. Redemption of Debentures by Conversion into shares
 26. Redemption of Debentures by Purchase in the open market
- 3.5 Interest on Debentures**
 27. Purchase of Own Debentures
 28. Cum-Interest and Ex-Interest Quotations

Chapter # 04

Company Final Accounts (19 Videos)

- 4.1 Final Accounts-Different kind of Busine**
 1. Trading, Manufacturing and Service concerns
 2. Matching Revenue and Expenses

4.2 Final Accounts-Basic Level

3. Trading Account-Basic Level
4. Different Items of Trading Account-Debit side
5. More on Different Items of Trading Account-Debit side
6. Different Items of Trading Account-Credit side
7. Valuation of Closing Stock
8. More on Valuation of Closing Stock
9. Problem 1: Trading Account
10. Trading, Profit and Loss Account
11. Different Items of Profit and Loss Account-Debit side
12. More on Different Items of Profit and Loss Account-Debit side
13. Different Items of Profit and Loss Account-Credit side
14. Asset
15. Types of Assets
16. Liabilities
17. Types of Liabilities
18. Equity
19. Problem 5: Statement of Financial Position / Balance Sheet

Chapter # 05

Analysis of Accounting Ratios (32 Videos)

5.1 Introduction to Ratio analysis

1. Introduction to Ratios

5.2 Categorization of Ratios and Its Interp

2. Basic Accounting Ratios
3. Basic Accounting Ratios-II
4. Basic Accounting Ratios-III
5. Liquidity Ratios
6. Cash and Defense Interval Ratios
7. Additional Liquidity Ratios
8. Additional Liquidity Ratios
9. Leverage Ratios
10. Leverage Ratios
11. Proprietary Ratio
12. Activity Ratios
13. Activity Ratios-II
14. Turnover Ratios
15. Turnover Ratios-II
16. Profitability Ratios
17. Profitability Ratios-II
18. Profitability Ratios-III

19. Return on Investment - Alternative Way
20. Bankruptcy - Altman's Model
21. Market / Investor Ratio
22. More on Market / Investor Ratio
23. Growth Ratios

5.3 Numericals

24. Problem 1: Long and Short Term Solvency
25. Problem 2: Preparation of Balance Sheet using Ratios
26. Problem 2: Preparation of Balance Sheet using Ratios
27. Problem 3: Liquidity Ratios
28. Problem 4: Receivable Ratios
29. Problem 5: Calculation of Different Ratios through Trading, Profit an
30. Problem 5: Calculation of Different Ratios through Trading, Profit an

5.4 Horizontal and Vertical Analysis

31. Horizontal and Vertical Analysis of Financial Statement
32. Vertical Analysis of Financial Statement

Chapter # 06

Departmental Accounting (17 Videos)

6.1 Departmental Accounts

1. Introduction to Departmental Accounting
2. Basis of Allocation of Departmental Expenses
3. More on Basis of Allocation of Departmental Expenses
4. Numerical 1: Departmental Trading, Profit and Loss Account
5. More on Numerical 1: Departmental Trading, Profit and Loss Account
6. More on Numerical 1: Departmental Trading, Profit and Loss Account
7. Departmental Statement of Financial Position
8. More on Departmental Statement of Financial Position
9. Numerical 3: Departmental Trading, Profit and Loss Account (3 Departm
10. More on Numerical 3: Departmental Trading, Profit and Loss Account
11. More on Numerical 3: Departmental Trading, Profit and Loss Account

6.2 Inter-Departmental Transfer

12. Unrealised Profit
13. Cost & Market based Transfer Price
14. Departmental Accounts (Practice of Internal Transfer Price and Unrea
15. Departmental Accounts (Practice of Internal Transfer Price and Unrea
16. Departmental Accounts (Practice of Internal Transfer Price and Unrea

17. Departmental Accounts (Practice of Internal Transfer Price and Unrea

Chapter # 07

Branch Accounting (17 Videos)

7.1 Branch Accounting

1. Branch Accounts
2. Difference between Departmental & Branch Accounting
3. Need for Branch Accounting
4. Accounting arrangements of Branches
5. Branch Account
6. Branch Debtor System
7. Treatment of some Typical Items of Branch
8. Problem 1: Branch Account
9. Problem 2: Trading, Profit & Loss Account of the Branch
10. More on Problem 2: Trading, Profit & Loss Account of the Branch
11. Some special treatments in case of Independent Branch
12. Wholesale and Retail Profit at Branch

7.2 Foreign Branches

13. Introduction to Foreign Branches
14. Rules for Conversion of Foreign Branch Trial Balance
15. Accounting Treatment of Foreign Exchange Reserves
16. Conversion of Foreign Exchange Trial Balance into Home Currency
17. More on Conversion of Foreign Exchange Trial Balance into Home Curren

Chapter # 08

Consignment Accounts (17 Videos)

8.1 Introduction of Consignment Accounts

1. Consignment Accounts
2. Important Terms used in Consignment Accounts
3. More on Important Terms used in Consignment Accounts

8.2 Accounting Treatments

4. Journal Entries in the Books of Consignor
5. More on Journal Entries in the Books of Consignor
6. Ledger Accounts in the Books of Consignor
7. Journal Entries in the Books of Consignee
8. Ledger Accounts in the Books of Consignee

8.3 Adjustments

9. Valuation of unsold Consignment Stock
10. Example: Valuation of unsold Consignment Stock
11. Loss of Stock or Goods
12. Abnormal Loss in Consignment
13. Invoicing Goods Higher than Cost

8.4 Problems

14. Problem 1: Consignment Account (Normal Loss)
15. More on Problem 1: Consignment Account (Normal Loss)
16. Problem 2: Consignment Account (Abnormal Loss)
17. More on Problem 2: Consignment Account (Normal Loss)

Chapter # 09

Contract Accounts (07 Videos)

9.1 Introduction of Contract Accounts

1. Introduction to Contract Account
2. Problem 1: Contract Account
3. Rules to record Profit on Incomplete Contracts
4. Rules to record Profit on Incomplete Contracts
5. Problem 2: Profit on Incomplete Contracts
6. More on Problem 2: Profit on Incomplete Contracts
7. Disclosure of Contract Account in the Balance Sheet

Chapter # 10

Hire Purchase and Installment Purchase (25 Videos)

10.1 Introduction to Hire Purchase

1. Introduction to Hire Purchase

10.2 Accounting Treatment of Hire Purchase

2. Breakup of Instalment
3. Problem 2: Calculation of Interest
4. Problem 3: Calculation of Cash Price (Break up Table)
5. Problem 4: Calculation of Cash Price (Annuity Table)
6. Problem 6: Calculation of Purchase price
7. Problem 7: Calculation of Purchase price
8. Problem 8: Asset is recorded at full Cash Price
9. Problem 10: Ledger Accounts & Balance Sheet
10. Problem 11: Ledger Accounts & Balance Sheet (Hire Vendor)

10.3 Repossession

11. Repossession Under Hire Purchase
12. Accounting For Complete Repossession
13. More On Accounting For Complete Repossession

10.4 Partial Repossession

14. Accounting for Partial Repossession
15. More on Accounting for Partial Repossession

10.5 Hire Purchase agreements for goods of s

16. Hire Purchase agreements for sale of small value goods
17. Hire Purchase trading Account
18. Stock and debtors method
19. More on Stock and debtors method

10.6 Installment Purchase System

20. Installment Purchase System
21. Accounting For Installment Purchase System
22. Problem 17: Journal Entries in the Books of Seller

10.7 Accounting for Lease

23. Problem 19: Journal Entries in the Books of Lessor
24. More on Problem 19: Journal Entries in the Books of Lessor
25. Problem 21: Journal Entries in the Books of Lessee

Chapter # 11

Joint Venture Accounts (05 Videos)

11.1 Introduction to Joint Venture

1. Introduction to Joint Venture

11.2 Maintenance of Accounts

2. Problem 1: Records kept at the Place of Business
3. Problem 2: Records in the Books of all Ventures
4. Problem 3: Memorandum Method
5. Problem 4: Records in a Separate set of Books

Chapter # 12

Valuation of Goodwill (13 Videos)

12.1 Introduction to Goodwill

1. Introduction to Goodwill

12.2 Types of Goodwill

2. Purchased Goodwill And Non-Purchased Goodwill

12.3 Valuation of Non-Purchased Goodwill

3. Average Profit Method
4. Problem 1: Average Profit Method
5. Super Profit Method
6. Problem 3: Capitalization of Average Profit Method
7. Problem 4: Capitalization of Super Profit Method
8. Problem 5: Annuity Method

12.4 Introduction of Shares

9. Share Capital of a Company

12.5 Methods of Valuation of shares

10. Assets Valuation Method
11. Problem 1: Assets Valuation Method
12. Yield Valuation Method
13. Problem 2: Yield Valuation Method

Chapter # 13

Amalgamations and Restructuring (12 Videos)

13.1 Introduction to Amalgamation

1. What is merger and takeover? Why companies do amalgamation?

13.2 Payment Methods

2. Purchase Consideration
3. Problem 1: Net worth basis
4. Problem 2: Net payment Method

13.3 Accounting Treatment of Amalgamation

5. Accounting In the Books of amalgamating Company
6. More on Accounting In the Books of amalgamating Company
7. Accounting In The Books of amalgamated Company
8. Cross Holding In Amalgamation
9. More on Cross Holding In Amalgamation

13.4 Absorption and External Reconstruction

10. Problem 8: Calculation of Purchase consideration
11. Problem 9: Absorption Reconstruction
12. More on Problem 9: Absorption Reconstruction

Chapter # 14

Liquidation of Companies (04 Videos)

14.1 Introduction

1. Introduction and Modes of winding up

14.2 Accounting Treatment

2. Problem 1: Statement of Affairs as regard to Creditors and Contributo
3. More on Statement of Affairs as regard to Creditors

14.3 Liquidator's Final Statement of Account

4. Problem 2: If remuneration of Liquidator is fixed

14th Year (Cost Accounting)

(Total Videos # 123)

Chapter # 01

Introduction to Cost Accounting (18 Videos)

1.1 Introduction

1. Cost Accounting and its Classification
2. More on Cost Accounting and its Classification
3. Difference between Cost Accounting and Financial Accounting
4. Difference between Management Accounting & Cost Accounting

1.2 Classifications and Concepts

5. Material, Labor and Factory Overhead
6. Manufacturing and Non Manufacturing Cost
7. Direct and Indirect Cost
8. Cost Classification for Decision Making

1.3 Cost Behaviors

9. Cost Behavior
10. Semi Variable
11. Step Fixed Cost

1.4 Methods for Identification of Variable

12. High-Low Method
13. Problem: High-Low Method
14. Numerical: Cost Behaviour
15. More on Numerical: Cost Behaviour

1.5 Cost Accounting System

16. Cost Accounting System

1.6 Chart of Accounts

17. Chart of Accounts

1.7 Voucher System

18. Format of a Voucher

Chapter # 02

Cost Accounting Cycle (19 Videos)

2.1 Cost Accounting Cycle

1. Cost Accounting Cycle
2. Perpetual and Periodic Inventory System
3. Problem 04: Periodic & Perpetual Inventory Valuation
4. More on problem periodic and perpetual inventory system

2.2 Steps of Processing and Ledgers of Cost

5. Acquisition and Use of Materials
6. Journal Entries for Acquisition and Use of Materials
7. Material Control Accounts
8. Use of Labour and Recording its Cost
9. Payroll Control Account
10. Journal Entries for Recording Labour Cost
11. More on Journal Entries for Recording of Labour
12. Factory Overhead or Manufacturing Cost
13. Actual Versus Applied Manufacturing Overhead
14. Ledger Account to determine under/over Applied Overhead
15. Completion of Cost Accounting Cycle

2.3 Journal Entries to Record Costs

16. Illustration 1: Cost Accounting Cycle
17. More on Illustration 1: Cost Accounting Cycle
18. Illustration 2: General Ledger and Factory Ledger Entries
19. More on Illustration 2: General Ledger and Factory Ledger Entries

Chapter # 03

Financial Statements (07 Videos)

3.1 Costing Schedules

1. Income Statement of Manufacturing Concern
2. Cost of goods Manufactured and Sold Statement (Schedule 2)
3. More on Cost of goods Manufactured and Sold Statement (Schedule 2)

3.2 Introduction to Cost of goods sold

4. Schedule 3: Marketing Expenses
5. Schedule 4: Administration Expenses
6. Preparing Operating Statements from Incomplete Data

7. More on Preparing Operating Statements from Incomplete Data

Chapter # 04

Job Costing (08 Videos)

4.1 Job Costing

1. Job Costing System
2. Adoption of Cost Accounting System
3. Types of Job Costing System

4.2 Job Costing-Accounting for Manufacturin

4. Job Cost sheet
5. Preparation of Job Cost Sheet
6. Recording Journal Entries from Job Cost Sheet
7. Job Order Costing Procedure (I-II)
8. Job Order Costing Procedure (III-IV)

Chapter # 05

Process Costing (22 Videos)

5.1 Process Costing

1. Process costing
2. Difference between Job Order Costing and Process Costing
3. Steps involve in Process Costing Activities

5.2 Preparing Cost of Production report

4. Process Costing Procedures
5. Introduction to Cost of production report
6. Problem Cost of Production report Department 1
7. More on problem Cost of production report department 1
8. process costing dept 2 without begining WIP part a
9. process costing dept 2 without begining WIP part b
10. CPR using FIFO part a
11. CPR using FIFO part b
12. CPR using WA part a
13. CPR using WA part b
14. FIFO vs Wa Intro
15. FIFO and weighted average costing
16. FIFO and weighted average costing b

5.3 Other Product Costing Issues

17. Normal Loss
18. Problem 06: Normal Loss and abnormal loss
19. More on Problem 06: Normal Loss
20. Abnormal Loss
21. Problem 07: Abnormal Loss
22. More on Problem 07: Abnormal Loss

Chapter # 06

Material Costing (18 Videos)

6.1 Introduction

1. The Term material and its Classification

6.2 Costing for Materials

2. Material Received, Material Issued

6.3 Costing for Material Issued

3. Costing for Material Issued (First in First Out)
4. Problem 01: First in First out method (FIFO)
5. Last in First out Method
6. Problem 02: Last in First out (LIFO)
7. Average Costing method
8. Problem 03: Average method

6.4 Inventory Valuation

9. Perpetual and Periodic Inventory System
10. Problem 04: Periodic & Perpetual Inventory Valuation
11. More on problem periodic and perpetual inventory system
12. Lower of Cost or Market Valuation
13. Gross Margin Inventory Estimation
14. Retail Inventory Method

6.5 Quantitative Tools for Maintaining Bala

15. What is Economic order quantity
16. Inventory Levels
17. Inventory Turnover Ratio

6.6 Material Variance Analysis

18. Material Price and Quantity Variance

Chapter # 07

Labour Costing (14 Videos)

7.1 Introduction

1. The term Labour and its classification
2. Labour Budget
3. Problem 01: Labour Budget

7.2 Costing for Labour

4. Fixation of standard production time
5. Problem 02: Fixation of standard production time

7.3 Methods of Wage Computation

6. Methods of Wage Computation
7. Problem 04: Straight Piecework Plan
8. 100 Percent Bonus Plan
9. Problem; 100 percent Bonus plan

7.4 Labour Variance Analysis

10. Labour variance
11. Problem 03: Labour variance
12. Labour Rate and Efficiency Variance

7.5 Accounting for labour related cost

13. Payroll Journal Entries
14. Problem 12: Payroll Journal Entries

Chapter # 08

Factory Overhead (17 Videos)

8.1 Introduction

1. The term Factory overhead and its Classification

8.2 Accounting Treatment for Factory Overhe

2. Actual, Under applied and Over applied overhead

8.3 Departmentalization of Factory overhead

3. Calculation of Unit and Departmental Overhead Rates
4. Problem 01: Departmental Overhead Rates
5. Calculation of Capacity Level and Overhead Absorption base
6. Problem 02: Overhead Absorption base
7. Primary apportionment and Secondary apportionment
8. Problem 03: Primary apportionment and Secondary apportionment

8.4 Indirect Apportionment

9. Reciprocal Apportionment

- 10. Problem 04: Reciprocal Apportionment repeated method
- 11. Problem 04: Reciprocal Apportionment algebraic method
- 12. Non-Reciprocal Apportionment
- 13. Problem: Non-Reciprocal Apportionment
- 14. More on problem Non-Reciprocal Apportionment

8.5 Factory overhead variance analysis

- 15. Overhead Variances
- 16. Problem 06: Overhead Variances

8.6 High low method

- 17. High low method