# Lesson Plan

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| **Name of the Faculty:** | **Ms. Prachika** |
| **Discipline:** | **BCA** |
| **Semester:** | **2nd** |
| **Subject:** | **Mathematical Foundations for Computer Science-II(B23-CAP-204)** |
| **WorkLoad(Lecture/Practical) perweek(Inhours):** | **Lecture-3** |

| **S.No** | **Lecture No.** | **Theory** | |
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| | | **Topic(IncludingAssignment/Test/Quiz)** | **Pedagogy ( PPT/Chalk and Board/Video Recording /Activity/Case Study)** |
| 1. | L1. | Introduction,Integration of simple algebraic, trigonometric, and exponential functions. | Chalk and Board |
| 4. | L2. | Presentation of data: Frequency distribution and cumulative frequency distribution, | Chalk and Board |
| 5. | L3. | Diagrammatic and graphical presentation of data, | Chalk and Board |
| 7. | L4. | Construction of bar, Pie diagrams, Histograms, Frequency polygon, Frequency curve, and Ogives. | Chalk and Board |
| 6. | L5. | Introduction,Measures of central tendency: Arithmetic mean, Median, Mode, | Chalk and Board |
| 7. | L6. | Geometric mean and Harmonic mean for ungrouped and grouped data. | Chalk and Board |
| 8. | L7. | Measures of dispersion: Concept of dispersion, Mean deviation and its coefficient, | Chalk and Board |
| 9. | L8. | Range, Variance and its coefficient, Standard deviation. | Chalk and Board |
| 10. | L9. | Introduction, Correlation: Concept and types of correlation, Methods of finding correlation | Chalk and Board |
| 10. | L10. | Scatter diagram, KarlPearson'scoefficients of correlation, | Chalk and Board |
| 11. | L11. | Rank correlation | Chalk and |

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| | | | Board |
| 12. | L12. | Introduction,Linear regression: Principle of least square | Chalk and Board |
| 13. | L13. | Fitting of a straight line | Chalk and Board |
| 14. | L14. | Two lines of regression | Chalk and Board |
| 15. | L15. | Regression coefficients. | Chalk and Board |
| | | **Assignment** | **On Paper** |
| 17. | L16. | finding integration of simple functions | Chalk and Board |
| 18. | L17. | Representation of data using Bar and pie diagrams. | Chalk and Board |
| 19. | L18. | Representation of data using Histogram | Chalk and Board |
| 20. | L19. | Representation of data using Frequency polygon | Chalk and Board |
| 21. | L20. | Representation of data using Frequency curves | Chalk and Board |
| 22. | L21. | Representation of data usingOgives. | Chalk and Board |
| 23. | L22. | Problems to compute measures of central tendency | Chalk and Board |
| 24. | L23. | Problems to calculate measures of dispersion | Chalk and Board |
| 25. | L24. | Problem to calculate Karl Pearson's coefficient of correlation. | Chalk and Board |
| 26. | L25. | Problem to fit the straight line for the given data. | Chalk and Board |
| 26. | L26. | Problem to find lines of regression. | Chalk and Board |