

BLUE PRINT

II PUC BASIC MATHEMATICS (CODE - 75) 2021-22

[Subject code : 75]

| Unit/ Chapter | Title of the chapter | No.of Teaching hrs | Part A | Part B | Part C | Part D | Part E | | Total Marks |
|-------------------|--|--------------------------|------------|------------|------------|------------|------------|------------|----------------|
| | | | 1 Marks | 2 Marks | 3 Marks | 5 Marks | 4 Marks | 6 Marks | |
| Unit - I | ALGEBRA (42 hrs) | | | | | | | | |
| 1 | Matrices & Determinants | 13 | 2 | 2 | 2 | 1 | - | 1 | 23 |
| 2. | Permutations & Combinations | 08 | 1 | 1 | 1 | 1 | - | - | 11 |
| 3. | Probability | 05 | 1 | 1 | 1 | - | - | - | 06 |
| 4. | Binomial Theorem | 06 | - | - | 1 | 1 | 1 | - | 12 |
| 5. | Partial Fractions | 04 | - | - | 1 | 1 | - | - | 08 |
| 6. | Mathematical Logic | 06 | 1 | 1 | 1 | 1 | - | - | 11 |
| Unit - II | COMMERCIAL ARITHMETIC (34 hrs) | | | | | | | | |
| 7. | Ratios & Proportion | 10 | 1 | 2 | 1 | 1 | - | - | 13 |
| 8. | Bill Discounting | 06 | - | 1 | 1 | 1 | - | - | 10 |
| 9. | Stocks & Shares | 04 | 1 | 1 | 1 | - | - | - | 06 |
| 10. | Learning Curve | 04 | 1 | - | - | 1 | - | - | 06 |
| 11. | Linear Programming Problems | 06 | - | - | - | 1 | 1 | - | 09 |
| 12. | Sales Tax & Value added tax | 04 | - | 1 | | - | - | - | 02 |
| Unit - III | TRIGONOMETRY (12 hrs) | | | | | | | | |
| 0613. | Heights & Distances | 04 | - | 1 | - | - | 1 | - | 06 |
| 14. | Compound, Angles, Multiple Angle, Sub Multiple angle & Transformation formulae | 08 | 1 | 1 | 1 | 1 | - | - | 11 |
| Unit - IV | ANALYTICAL GEOMETRY (10 hrs) | | | | | | | | |
| 15. | Circles | 06 | - | - | 1 | - | - | 1 | 09 |
| 16. | Parabola | 04 | 1 | 1 | - | - | - | - | 03 |
| Unit - V | CALCULUS (42 hrs) | | | | | | | | |
| 17. | Limit and Continuity of function | 08 | 1 | 1 | 1 | - | - | 1 | 12 |
| 18. | Differential Calculus | 10 | 2 | 1 | 2 | 1 | - | - | 15 |
| 19. | Application of Derivative | 08 | - | 2 | 1 | - | - | - | 07 |
| 20. | Indefinite Integrals | 08 | 1 | 1 | 1 | - | - | - | 06 |
| 21. | Definite Integrals and its Application to areas. | 08 | 1 | - | 1 | 1 | - | - | 09 |
| | Total No. of Teaching hrs / Marks | 140hrs | 15 | 36 | 54 | 60 | 12 | 18 | 195 |