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| Lesson plan of Mathematics  **BBA -1st sem(Business Mathematics)** |  |
| **WEEKS** |  **Chapter**  |  |
| 1 | Theory of Sets – Meaning, elements, types, presentation and equality of sets; union, intersection |  |
| 2 | compliment & difference of sets; Venn diagrams; |  |
| 3 | Cartesian product of two sets; applications of set theory.  |  |
| 4 | Indices & logarithms, arithmetic and geometric progressions and their business applications; |  |
| 5 | sum of first n natural nlumbers, sum of squares |  |
| 6 | cubes of first n natural numbers. |  |
| 7 | Permutations |  |
| 8 | combinations |  |
| 9 | binomial theorem (positive index), Quadratic equations.  |  |
| 10 | Matrices – Types, properties, addition, multiplication, transpose and inverse of matrix; properties of determinants, |  |
| 11 | solution of simultaneous Linear Equations; differentiation and integration of standard algebraic functions; |  |
| 12 | business applications of matrices, differentiation and integration.  |  |