



**Mathematics**  
**Grade XII**  
**(Subject Code: 216)**

**Grade – XI**

**Full Marks 100**  
**Teaching hours 150**

Unit - 1:	Sequences and series	9 teaching hours
Unit - 2:	Permutation and combination	9 ,, ,,
Unit – 3:	Binomial, exponential and logarithmic series	9 ,, ,,
Unit – 4:	Circle	9 ,, ,,
Unit – 5:	Conic sections	10 ,, ,,
Unit – 6:	Derivatives and its application	10 ,, ,,
Unit – 7:	Anti-derivatives and its application	10 ,, ,,
Unit – 8:	Elements of vector and their applications	9 ,, ,,
Unit - 9:	Product of vectors	9 ,, ,,
Unit – 10:	Organization & representation of numerical data and measures of location	9 ,, ,,
Unit – 11:	Measures of variability	9 ,, ,,
Unit – 12:	Probability	10 ,, ,,
Unit – 13:	Statics	10 ,, ,,
Unit – 14:	Statics (Continued)	9 ,, ,,
Unit – 15:	Dynamics	9 ,, ,,
Unit – 16:	Dynamics (Continued)	10 ,, ,,

**Prescribed Text Book**

1. Bajracharya, B.C., Basic Mathematics Vol H
2. Bajracharya, B.C., A textbook of Statistics
3. Gupta, S.P., An easy approach to statistics
4. Pans, G.D., Statistics for Business
5. Pans, G.D., Dynamics
6. Pandit, R.P., Introduction to Dynamics
7. Pandit, R.P., Introduction to Statistics
8. Loney, S.L., Elements of Dynamics and Statistics I and II
9. Aggarwal, R.S., Senior Secondary School Mathematics For Xclass XII, Bharati Bhavan, Patana, 1998.
10. Bajracharya, B.C., A Text Book of Statistics, M.K Publishers and Distributors, 2054.
11. Dubey, Question Banks in Mathematics, Tata McGraw-Hill Publishing Co., 1998.
12. Gupta, S.P., An Easy Approach To Statistics, S.Chand & Co., Pvt. Ltd., 1996.
13. Gupta & Gupta, New Senior Secondary Mathematics, S.Chand & Co. Pvt. Ltd., 1990.
14. Thomas & Finney, Calculus and Analytic Geometry, Norosa Publishing House
15. Many Verlag Munehen – Arithmetic and Algebra – III
16. S.L. Loney. " The Elements of Status and Dynamics" Part I and II, CUR