



Mathematics
(Subject Code: 116)

Grade – XI

Full Marks 100
Teaching hours 150

Unit - 1: Set theory, Real Number System and Logic	10 teaching hours
Unit - 2: Relations, Functions and Graph	12 „ „
Unit – 3: Curve Sketching	10 „ „
Unit – 4: Trigonometry	10 „ „
Unit – 5: Sequence and Series and Mathematical Induction Sequence and Series:	12 „ „
Unit – 6: Matrices and Determinants	8 „ „
Unit – 7: System of Linear Equations	8 „ „
Unit – 8: Complex Numbers	12 „ „
Unit - 9: Polynomial Equations	8 Teaching Hours
Unit – 10: Co-ordinate Geometry	12 „ „
Unit – 11: Circle	10 „ „
Unit – 12: Limits and continuity	10 „ „
Unit – 13: The Derivative	8 „ „
Unit – 14: Application of derivative	9 „ „
Unit – 15: Antiderivatives and its applications	9 „ „

Reference books:

1. Bajracharya, Prakash Muni, Fundamentals of Mathematics-XI, Buddha Publication, Ktm.
2. Adhikary, D.B., Elements of Mathematics-XI, Exata Books and Distributors, Ktm.
3. G.C. Phan Bahadur et.al., Mathematics-XI, Asmita Books Publication, Ktm.
4. Awasthi, Ramesh Prasad, Mathematics XI, Unice Educational Publication, Ktm.
5. Mahato, Hem Chandra et.al., Mathematics-XI, G-7 Publication Pvt. Ltd., Ktm.
6. Mishra, Sailendra Kumar et.al., Conceptual Mathematics-XI, Divya Deuralis Publication, Ktm.
7. Bajracharya, D.R. and et.al, Basic Mathematics-XI, Sukunda Pustak Bhawan, Ktm.
8. Shurma, Basat Raj et.al., Essentials of Mathematics-XI, I.M Publication Pvt. Ltd., Ktm.
