

4. Readings

4.1 Textbook:

- *Topics in Algebra* by I. N. Herstein
- *Elementary Number Theory* by David M. Burton

4.2 Reference books:

- *Contemporary Abstract Algebra* by Joseph A. Gallian.
- *A Classical Introduction to Modern Number Theory* by Michael Rosen

5 Outcome of the Course:

- To classify numbers into number sets.
- Prove results involving divisibility and greatest common divisors.
- To combine polynomial by addition or subtraction.
- To solve problems of simple Inequalities.
- To simplify algebraic expressions, using the commutative, associative and Distributive properties.