2. NUMBERS AND SEQUENCES

Learning Outcomes:

- To study the concept of Euclid's Division Lemma.
- To understand Euclid's Division Algorithm.
- To find the LCM and HCF using Euclid's Division Algorithm.
- To understand the Fundamental Theorem of Arithmetic.
- To understand the congruence modulo 'n', addition modulo 'n' and multiplication modulo 'n'.
- To define sequence and to understand sequence as a function.
- To define an Arithmetic Progression (A.P.) and Geometric Progression (G.P.).
- To find the n_{th} term of an A.P. and its sum to n terms.
- To find the n_{th} term of a G.P. and its sum to n terms.
- To determine the sum of some finite series such as $\sum n, \sum n^2, \sum n^3$.