UNIT VI

Syllabus :

Concept of compression member, short column, long column, effective length, radius of gyration, slenderness ratio, type of end conditions for columns, buckling of axially loaded columns .

Euler's theory, assumptions made in Euler's theory and its limitations. Application of Euler's equation to calculate buckling load.

Rankine's formula and its application to calculate crippling load.

Concept of working load/safe load, design load and factor of safety.

❑❑❑