Objectives

1. To analyse the singly reinforced flanged sections using assumptions made in working stress method

2. To find expression for critical depth of neutral axis

3. To find the expression for actual depth of neutral axis for singly reinforced flanged beam when the neutral lies within the flange and outside the flange.

4. To derive the expression for moment of resistance of singly reinforced flanged beam (for both under reinforced and over reinforced sections) when the neutral lies within the flange and outside the flange.

5. To find the moment of resistance of a singly reinforced flanged section by doing some worked examples.