

Wollo University  
Kombolcha Institute of Technology  
Department: Civil Engineering  
Reinforced concrete structures II course out line  
Program Water Resources and Irrigation Engineering (Regular)

**Contents**

**Chapter one**

Continuous beams

Rotation capacity, plastic moment redistribution.

Torsion – truss model

**Chapter Two**

One way solid and ribbed slabs.

Two ways slab systems – two way beam supported slabs

Flat slabs.

**Chapter Three**

Short columns – combined axial forces and bending, interaction diagrams, biaxial bending.

Design aids. Cylinder columns.

**Chapter Four**

Retaining walls and footings.

Introduction to pre-stressed concrete

Water retaining structures