Manual RCC Design Training in Ameerpet, Hyderabad:

RCC stands for "**Reinforced Cement Concrete**". It is the composition of adding steel and concrete instead of using only concrete to equalize some limitations. Concrete is weak in soft stress compared to its compressive stress. To equalize this limitation, steel-reinforced cement is used in the concrete at the place where the section is subjected to soft stress.
The reinforcement is usually round in shape with approximate surface deformation is placed in the form in advance of the concrete. When the reinforcement is surrounded by the hardened concrete mass, it forms an integral part of the member. The resultant combination of two materials is known as reinforced concrete. In this case, the cross-sectional area of the beam or other flexural member is greatly reduced. You can also read the article on reinforced concrete beam behavior.

MANUAL RCC DESIGNS:

1). Structural Design consists of proportions of various elements of building such the loads on it are transferred safely to the ground.
2). Understanding how forces are transferred between the materials is the necessary transmission of forces between materials depends on the roughness of bars due to bond

stress.

3). The aim of the design is to decide the shape, size and connection details of members so that the structure being designed will perform satisfactorily during its intended value.

4). A structure may become unfit for use not only when it collapse but also when it violates the serviceability requirement of deflections, vibrations, cracks, corrosion fire, etc.