

CONSTRUCTION EQUIPMENT AND METHODS FOR BRIDGES

3-0-0-0-5

The emphasis of the course is on the construction equipment and the construction methods relevant for the construction of bridges. Initially, the course introduces different types of infrastructure viz, transportation, irrigation and water supply, power, and buildings. Subsequently the course delves into various components of infrastructure along with their specific requirements will be explained. The course introduces the basics of bridges in terms of types and special design and construction requirements. The course touches upon the specialized equipment and enabling / temporary works that are used in bridge construction. Subsequently the course delves into the construction of foundations, substructure viz., abutments and piers and superstructure. Different methods of superstructure viz., girder launching, cantilever construction, incremental launching and precast concrete segmental construction will be dealt with in detail. Besides the broad principles involved, specifications and quality requirements, and productivity and cost issues will also be addressed